



UNIVERSITY  
OF HAWAI'I  
HILO

**2001-2002  
GENERAL CATALOG**

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# A Ioha...

*and greetings from the University of Hawai'i at Hilo! As the Chancellor, I thank you for your interest in our University, as well as encourage you to learn more about the unique educational experience that awaits you.*

*For the third year in a row, the U.S. News & World Report ranked UH Hilo 3rd in public liberal arts colleges in the Western Region of the United States. I am extremely proud of this national recognition, and am even more proud of our excellent faculty and staff members who have made it possible for us to attain this ranking.*

*These are the many features and benefits at UH Hilo:*

- *Students are able to enjoy quality teaching by professors who have earned their doctorate degrees*
- *Due to small class size, our faculty are able to develop teaching-learning relationships with our students, which is not always possible at many big universities*
- *Safe, friendly and caring environment make it easy for students to call UH Hilo their home away from home*
- *Many of our students have gone on to successful careers or pursued their graduate studies at elite universities*
- *The Island of Hawai'i is a living laboratory for cultural and environmental studies*
- *Our tuition is one of the most affordable in the United States*

*At UH Hilo we take pride in offering our students the opportunity to obtain a solid undergraduate foundation upon which they can build further success.*

*The University of Hawai'i at Hilo truly offers a quality education at a great value. I constantly receive positive feedback from students, both past and present, on the excellent preparation they received for professional employment and graduate school.*

*It is my sincere hope that you enjoy our University and experience for yourself the unique educational qualities of the University of Hawai'i at Hilo.*



UNIVERSITY  
OF HAWAI'I  
HILO

*Sincerely,*

**Rose Tseng, Ph.D.**

Chancellor, University of Hawai'i at Hilo

# TABLE OF CONTENTS

<b>2001-2002 Calendar</b> .....	(back page)	Veterans .....	26
<b>TESTIMONIALS</b> .....	5-9	Housing .....	26
<b>GENERAL INFORMATION</b>		On-Campus Housing .....	26
The University .....	10	Residence Halls .....	26
The Community .....	10	Students with Disabilities .....	26
The Environment .....	10	Rates .....	26
General Information .....	10	Application Procedures .....	26
Philosophy .....	10	Off-Campus Housing .....	26
Mission .....	10	Family Student Apartments .....	27
Accreditation .....	10	Tenant Concerns .....	27
Facilities .....	10	Educational Opportunity Programs .....	27
Degrees Offered .....	11	Hawaiian Leadership Development Program .....	27
College of Agriculture, Forestry & Natural Resource Management (CAFNRM) .....	11	Health Careers Opportunity Program .....	27
College of Arts and Sciences .....	11	Minority Access and Achievement Program .....	27
Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language .....	11	Native Hawaiian Center of Excellence .....	27
University After Dark .....	11	Student Support Services Program .....	27
College of Continuing Education and Community Service (CCECS) .....	11	Upward Bound .....	28
The Students .....	12	Upward Bound Math/Science Center .....	28
Student Characteristics .....	12	Educational Rights and Privacy Act .....	28
The Faculty .....	12	Student Conduct Regulations .....	29
Learning Resources .....	12	Residency Regulations for Tuition Purposes .....	29
Center for Gifted and Talented Native Hawaiian Children (Nā Pua No'eau) .....	12	<b>ACADEMIC REGULATIONS</b>	
Women's Center .....	12	Admission Requirements .....	31
Hale Kuamo'o Center for Hawaiian Language and Culture Through the Medium of Hawaiian .....	13	Admission of Undergraduates .....	31
Hawai'i Small Business Development Center Network (SBDC) ....	13	Omitted or Fraudulent Information .....	31
The Kalākaua Marine Education Center (KMEC) .....	13	Admission Procedures .....	31
Marine Science Summer Program .....	13	The Admissions Ziplist .....	31
QUEST - Quantitative Underwater Ecological Surveying Techniques .....	13	Math Placement .....	31
Marine Option Program (MOP) .....	13	Writing Placement .....	32
KMEC Facilities .....	13	Tuition Deposit .....	32
Minority Biomedical Research Support Program (MBRS) .....	13	New Student Orientation .....	32
Writing Intensive Program .....	14	Admission of Hawai'i Residents As Freshmen .....	32
UH Hilo Writing Center .....	14	Profile of Admitted Students .....	32
New Student Orientation .....	14	Admission of Nonresidents .....	32
Nondiscrimination Policy .....	14	Admission of International Students .....	32
Sexual Harassment and Sexual Assault .....	14	Admission of Graduate Students .....	33
Notice to Persons with Disabilities .....	15	Admission of Transfer Students .....	33
University Disability Services Office .....	15	Transcripts Required .....	33
Campus Parking .....	15	Admission of Returnees .....	33
Persistence Rate .....	15	Admission of Unclassified Nondegree Students .....	33
Bookstore .....	15	Admission of Auditors .....	33
<b>CO-CURRICULAR ACTIVITIES</b>		Early Admission Program .....	33
Student Organizations .....	16	Admission to Summer Session .....	33
Ensembles .....	16	Transfer Credit .....	34
University of Hawai'i at Hilo Theatre .....	16	The Honors Program .....	34
<b>ATHLETICS</b>		Admission to Agriculture Development Program .....	34
Intercollegiate Sports .....	17	Registration, Withdrawals and Other Changes .....	34
Intramural Recreation .....	17	Regular Registration .....	34
<b>STUDENT AFFAIRS</b>		Late Registration .....	34
Counseling .....	18	Concurrent Registration .....	34
Financial Aid .....	18	Course Changes .....	34
Scholarships And Grants .....	19	Complete Withdrawal .....	34
Loans .....	23	Change of Major/College/Classified Status .....	35
Other Listings Of Financial Aid .....	24	Transcripts .....	35
Student Employment Programs .....	24	Classification of Students .....	35
Repayments .....	24	Course Numbering System .....	35
International Students .....	24	Credits, Grades, and Examinations .....	35
Environmental Internship Programs .....	25	Credit-by-Examination .....	36
Exchange Program .....	25	Final Examinations .....	37
Study Abroad .....	25	Repeating Courses .....	37
Western Undergraduate Exchange (WUE) .....	25	Directed Reading and Directed Studies .....	37
Health Services and Women's Health Clinic .....	25	Academic Waivers and Substitutions .....	37
Student Health Insurance .....	25	Attendance, Satisfactory Progress, Academic Probation, Dismissal, Readmission, Bankruptcy .....	37
Medical Clearance .....	26	Satisfactory Academic Progress for Undergraduate Programs .....	37
		Honors .....	38
		Academic Dishonesty .....	38
		Academic Grievances .....	38
		Participation in Assessment Efforts .....	38
		Graduation Requirements .....	38
		Baccalaureate Degrees: General Requirements .....	38

Application for Graduation .....	39	Geography And Environmental Studies .....	82
Graduation in Absentia .....	39	Geology .....	84
Honors at Graduation .....	39	Hawaiian Studies Program – See Ka Haka ‘Ula O Ke‘elikōlani	
Time Limits .....	39	College of Hawaiian Language .....	124
Specific Degree Requirements .....	39	Health and Physical Education .....	87
General Education Requirements .....	39	History .....	88
Major, Minor and Certificate Requirements .....	40	Honors .....	90
Writing Intensive Course Requirement .....	40	Interdisciplinary Studies .....	91
Upper-Division Requirement .....	40	Japanese Studies .....	91
Hawaiian/Asian/Pacific Requirement .....	40	Languages .....	92
Second Degree/Concurrent Degree/Double Major Policy .....	40	Chinese .....	93
General Education Requirements .....	41	French .....	93
Master of Arts in Hawaiian Language and Literature .....	42	Hawaiian .....	93
Master of Education .....	43	Japanese .....	93
<b>TUITION AND FEES</b>		Spanish .....	94
Tuition .....	44	Liberal Studies .....	94
Fees .....		Administration of Justice Program .....	94
Payments .....	44	Drama Program .....	94
Partial Advance Tuition Payment .....	44	Recreational Management .....	95
Tuition and Fees Refund Policy .....	44	Religious Studies .....	95
<b>COLLEGE OF AGRICULTURE, FORESTRY &amp; NATURAL</b>		Linguistics .....	95
<b>RESOURCE MANAGEMENT</b>		Marine Science .....	97
Purpose .....	45	Mathematics .....	99
Agriculture Minor .....	46	Music—see Performing Arts .....	101
Tropical Forestry Certificate .....	46	Natural Science .....	101
Special Programs .....	46	Nursing .....	103
CAFNR Courses		Pacific Islands Studies .....	106
Agriculture .....	48	Performing Arts .....	107
Agribusiness .....	49	Philosophy .....	111
Agricultural Economics .....	49	Physics .....	113
Agricultural Engineering .....	49	Political Science .....	115
Agronomy .....	50	Psychology .....	118
Animal Science .....	50	Religious Studies .....	120
Aquaculture .....	51	Sociology .....	121
Entomology .....	52	University .....	122
Food Science .....	52	Women’s Studies .....	123
Forestry .....	52	<b>KA HAKA ‘ULA O KE‘ELIKŌLANI</b>	
Horticulture .....	52	<b>COLLEGE OF HAWAIIAN LANGUAGE</b>	
Natural Resources .....	53	Vision .....	124
Plant Pathology .....	53	Hale Kuamo‘o .....	124
Plant Physiology .....	53	Hawaiian Studies Division .....	124
Soil Science .....	54	Bachelor of Arts in Hawaiian Studies .....	124
<b>COLLEGE OF ARTS AND SCIENCES</b>		The Atmosphere .....	124
Purpose .....	55	The Future .....	124
Educational Philosophy .....	55	The Program .....	125
Instructional Methods .....	55	The Major .....	125
Academic Advising .....	55	The Minor .....	125
Advising Center .....	55	The Certificate in Hawaiian Language .....	125
Evaluation of Students .....	55	The Certificate in Basic Hawaiian Culture .....	125
Curricula .....	56	Kahuawaiola Hawaiian Medium Teacher Education Program .....	125
Certificate Programs .....	56	Program Requirements .....	126
Special Programs .....	56	Master of Arts in Hawaiian Language and Literature .....	126
The Honors Program .....	56	Entrance Requirements .....	126
Marine Option Program (MOP) .....	56	Graduation Requirements .....	126
Pre-Law Studies .....	57	Course Descriptions .....	127
UH Hilo Space Grant College .....	57	<b>COLLEGE OF CONTINUING EDUCATION</b>	
College of Arts and Sciences Courses .....	58	<b>AND COMMUNITY SERVICE (CCECS)</b>	
Anthropology .....	58	Personal and Professional .....	130
Art .....	60	Development Program .....	130
Astronomy .....	61	Summer Session .....	130
Biology .....	62	Senior Citizen Programs .....	130
Business Administration .....	65	Travel Study Programs .....	130
Chemistry .....	70	The Conference Center .....	130
Communication .....	71	<b>ADMINISTRATION</b> .....	131
Computer Science .....	72	<b>FACULTY</b> .....	131
Dance -see Performing Arts .....	75	<b>PROFESSIONAL STAFF</b> .....	138
Drama -see Performing Arts .....	75	<b>SUPPORT</b> .....	140
Economics .....	75	<b>INDEX</b> .....	141
Education Program .....	76	<b>MAPS</b>	
Engineering .....	79	Main Campus .....	143
English .....	80	Manono Campus .....	144
French -see Languages .....	82		



# Who Can Resist Hawai'i?

*“UH Hilo caught my attention with its school size, student to teacher ratio, faculty credentials, housing and location.*

*The ultimate features that made me select UH Hilo first off was the location. Who can resist Hawai'i?*

*Second was the size of the school. I transferred from a college that had over 30,000 students. I felt like a little guppy fish in a huge ocean with tons of bigger fish and sharks!!! The third feature was the housing options. Many universities on the mainland don't offer much selection in their housing options. UH Hilo had a number of possibilities and compared to the colleges in the mainland, the dorms here are so much more spacious.*

*The most valuable experience that I encountered in terms of faculty was my Philosophy 230 class with Dr. Ron Amundson. He is very enthusiastic and made the class fun and exciting. He is a classic example of all of the nice and accepting faculty at UH Hilo.*

*What complements that is the warm and friendly atmosphere that one experiences throughout campus. This environment encompasses the “aloha” spirit and makes UH Hilo stand out from any other college campus.”*

**Jacqueline de Guzman**

*Philosophy & Political Science Major; UH Hilo Class of 2002  
Santa Clara, California*



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# A Good Study Environment...

*"[I was looking for] a university with the program of my choice (Marine Science), a good study environment [and] a place with minimum distraction as well as a small classroom size.*

*The surrounding environment (the Big Island of Hawai'i) as well as the design of the Marine Science program is just perfect. The faculty and staff at UH Hilo have made me feel comfortable and are always keen in monitoring my academic performances. [They] help me get the best out of my classes.*

*I have made friends from all over the USA, as well as locally and internationally. I've learned so much from their different cultures. [Also], joining the International Student Association has been a plus, exposing me to the richness of [the many] cultures on campus.*

*I definitely recommend my friends to attend UH Hilo. I think there's a great quality of education offered here at an affordable price. For those who pursue a course in the Natural Sciences field, this is definitely THE place to be because of all the natural resources available on the island. For others, UH Hilo is just a wonderful place to study with personalized attention and equal opportunities in a racially diverse community!"*



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**Louisa Shobhini Ponnampalam**  
BA Marine Science, UH Hilo Class of 2003  
Shah Alam, Malaysia

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# A Rewarding Experience...

*"I was convinced by the UH Hilo College of Agriculture faculty that UH Hilo would provide me with a well-rounded educational background in animal science, humanities and natural sciences needed to gain admission into a veterinary medical curriculum. The UH Hilo Agriculture Farm Laboratory in Panaewa, located only 15 minutes from campus, is an excellent place to obtain extensive hands-on experience with livestock. The animal science courses are both technical and practical. Classroom lectures/discussions are followed with practical instruction (hands-on experience) at the Farm Laboratory.*

*It was rewarding when I gained entry into four veterinary medical schools throughout the U.S., showing that UH Hilo is capable of preparing students for post-graduate studies in veterinary medicine. I am grateful and pleased with what UH Hilo offered me throughout my undergraduate education. UH Hilo is a small university, but it is not the size that matters; it is the quality and affordable education it offers students."*

**Alfred J. Mina, DVM**

*The Pet Hospital, Hilo, Hawai'i*

*D.V.M. Washington State University -*

*College of Veterinary Medicine, Class of 2000*

*B.S. Agriculture/B.A. in Biology, UH Hilo Class of 1995/1996*

*Hilo High School*



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# An Open Door Policy...



*"[I chose] UH Hilo because it was close to home, very reasonably priced, and had a relaxed environment. One of the great things [I also found] about UH Hilo was that the professors were always accessible. Most professors had an open door policy for students.*

*My time spent learning about geology and volcanology was thoroughly rewarding. One of my senior projects involved creating a computer model of underwater landslides off the coast of the Big Island. Together with Dr. Carl Johnson, we finished our working model in time to present our results in a geoscience conference. I had the pleasure of presenting our results to the conferees. Although it was immensely intimidating, I grew professionally because of it.*

*I am now working with the Oregon Department of Transportation doing geodetic surveying. I was hired for the job because I had a science degree and had experience with GPS surveying with the UH Hilo Geology Department.*

*I would recommend anyone from Hawai'i to attend UH Hilo because the costs are reasonable and the faculty are easy to get along with. I'd recommend UH Hilo to anyone off-island because of the unique culture and surroundings that the Big Island has to offer."*

**David R. King**  
Oregon Department of Transportation  
B.S. in Geology, UH Hilo Class of 1994  
Waiakea High School



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# Well Prepared For Grad School...

*"I was awarded a South Pacific student scholarship through the East West Center in Honolulu and for the first year of university they enroll all grantees at UH Hilo. The smallness of Hilo town, they believed, was comparable to places in the South Pacific and therefore would be the best environment for us to settle in and adapt to the USA.*

*The faculty at UH Hilo have been wonderful in terms of advising and giving me the opportunity to partake in their current research projects...I have come to know them as friends rather than merely having a distant classroom relationship.*

*The International Student Office has been a great place to get to know other foreign students and to have a little haven on campus. The NSE (National Student Exchange) Office was a nest of hidden opportunity that provided me with a valuable learning experience (i.e. going on exchange to Massachusetts). Finally, my friends have taught me how to love the Big Island for all its natural beauty and relative isolation.*

*I feel well prepared for grad school thanks to the writing intensive classes, and to all my upper-division classes where the level and quality of work required were high."*

**Anna Naupa**

*BA Geography/Anthropology, UH Hilo Class of 2001  
Port Vila, Vanuatu (Southwest Pacific)*



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# GENERAL INFORMATION

## The University

The University of Hawai'i at Hilo is a comprehensive regional university located on the Island of Hawai'i, the largest in the Hawaiian Archipelago. Beginning as the Hawai'i Vocational School in 1941, the University has grown and changed throughout the years to meet the educational needs of the community, and in 1970 was organized under its present name.

UH Hilo is one of the four units in the University of Hawai'i system along with UH Mānoa, UH West O'ahu and UH Community Colleges. UH Hilo incorporates three four-year colleges: the College of Agriculture, Forestry and Natural Resource Management; the College of Arts and Sciences; and Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language. In Fall 2000, the University enrolled 2,874 students.

The Chancellor is the Chief Executive Officer for the UH Hilo campus and is responsible to the president who heads the statewide University of Hawai'i system. A Board of Regents, appointed by the governor, is the governing body of the UH system.

## The Community

The University is located in the city of Hilo, on the east side of Hawai'i Island, about 200 air miles from Honolulu, the state's capital. The peaceful city of Hilo offers a moderate cost of living, clean air, and a low-density population of about 45,000. Within 10 minutes of campus are shopping malls, theaters, and restaurants, as well as a major harbor and international airport.

Hilo, which began its history as a fishing village, is set against the backdrop of Mauna Kea and Mauna Loa, two of five volcanoes that form the island. Each of the mountains varies in geographic features, together spreading out over 4,208 square miles, and creating more distinctive climate zones and ecosystem types than anywhere else in the state. Besides snow-capped mountains and dry, arid deserts, there are dormant and active volcanoes, vast lava flows encircling lush rainforests, perennial rivers slicing through wind-swept pastures, and coastal reefs dropping off into the ocean. The University designs many of its programs for hands-on learning in this living laboratory.

The economy of Hawai'i Island is currently in transition following the demise of the sugar industry in the nineties. The three mainstays of the economy are adapting to this change with a spirit of entrepreneurship and creativity. Agriculture is diversifying, tourism is growing to include eco-edu-tourism, and the astronomy facilities are developing a large community to support the world renowned observatories atop Mauna Kea. The University plays an important role in the island's economic revitalization, committing its resources to the development of the workforce for the new economy, and placing emphasis on applied research and technology in all grant activity.

## The Environment

Located at the base of Mauna Loa, an ancient Hawaiian volcano, and situated on the rugged shore of the blue Pacific Ocean, Hilo is known as the city of flowers. Palm trees and beautiful foliage accent this port city and the University of Hawai'i at Hilo campus. To nurture the lush tropical foliage, soft trade winds bring abundant rains, occasionally heavy, with most of the precipitation falling at night. Daytime temperatures often reach 78 to 82 degrees with night time temperatures seldom falling below 65 to 67 degrees.

The ancient Hawaiians settled on the island of Hawai'i because of the climate and gentle rainfall needed to assure abundant crops. The nearby ocean provided a bounty of fresh seafood for them on a daily basis. Still today, the weather and climate, as well as the beautiful ocean, are distinctive parts of the culture, beauty, and recreational opportunities in Hilo, Hawai'i.

The mailing address for all units is: The University of Hawai'i at Hilo, 200 W. Kawili Street, Hilo, Hawai'i 96720-4091. The University main exchange is: (808) 974-7311, FAX (808) 974-7622, Email: [uhhadm@hawaii.edu](mailto:uhhadm@hawaii.edu). Web address: [www.uhh.hawaii.edu](http://www.uhh.hawaii.edu)

## Philosophy

The educational philosophy of the University of Hawai'i at Hilo, broadly stated, is that the development of the human potential to the fullest extent possible is central to the very existence of the University. Through an intellectually stimulating environment, the advancement of knowledge, learning, and skill development, the student is prepared for a meaningful place in society.

Philosophically, the University is a haven for creative thinking, a depository of intellectual resources, and a catalyst for developing a curiosity for learning. Collectively, the University holds this sacred. In turn, each college assumes a specific role in the implementation of the institutional philosophy through its respective programs.

## Mission

The University of Hawai'i at Hilo is a comprehensive, regional institution on the island of Hawai'i, offering a residential campus experience to students who welcome close interaction with faculty. UH Hilo functions within the University of Hawai'i system, serving the State of Hawai'i as well as students from the U.S. mainland and from many nations in the Asian/Pacific region.

The primary mission of UH Hilo is to offer excellent undergraduate liberal arts and professional programs. In fulfilling its teaching, research and service activity, UH Hilo uses the remarkable geographic features of Hawai'i as an island-learning laboratory. A master of arts is offered in Hawaiian Language and Literature and a Master of Education in the College of Arts and Sciences and several other graduate degrees are in varying stages of planning. These programs are in response to unmet regional needs, especially in areas where existing expertise and natural resources afford students unique opportunities.

UH Hilo stresses rigorous education in a caring, personalized atmosphere, encourages student-faculty interaction and collaboration on research projects, and offers "hands-on" learning and leadership opportunities. Providing an environment that is responsive to the needs of a diverse student population is central to the UH Hilo philosophy.

In its mission, UH Hilo encourages both theoretical and applied research, promotes activity that inspires further inquiry, and enhances instructional excellence. The university benefits the community and region by developing and implementing resource centers, community partnerships, and distance education programs.

## Accreditation

The University of Hawai'i at Hilo is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges. Education program majors are accredited by the National Association of State Directors of Teacher Education Certification. The nursing program is accredited by the National League for Nursing Accrediting Commission (NLNAC), 359 Hudson Street, New York, NY 10014, (212) 989-9393, FAX (212) 989-8264. The Business Administration BBA program has been accepted for candidacy for accreditation by the American Assembly of Collegiate Schools of Business (AACSB). Students may transfer credits to other American or foreign universities on the same basis as course credits are transferred by other accredited American universities. Documents relating to the accreditation of the University of Hawai'i at Hilo are available to the public at the Edwin H. Mookini Library.

## Facilities

The campus of the University of Hawai'i at Hilo consists of a 115-acre campus, an adjoining 163-acre University Park, and a 110-acre University Agricultural Farm Laboratory located in Pana'ewa Agricultural Park. To serve the needs of the University, there are 55 major buildings and 32 portables, including classroom buildings, special facilities for student laboratories, a library and media center, faculty office buildings, administration building, student services building, a fully-equipped Theatre complex, a campus center for student activities, an athletic complex, tennis courts, and playing field.

UH Hilo also offers coursework at the University of Hawai'i Educational Center in Kealahou, Kona, as well as via interactive television at Maui Community College and Leeward Community College on O'ahu.

## Degrees Offered

### College of Agriculture, Forestry & Natural Resource Management

	BS	Minor
Agriculture	*	*

### College of Arts & Sciences

	M. Ed.	BA	BBA	BS	Minor
Anthropology		*			*
Art		*			*
Astronomy				*	*
Biology		*		*	*
Business Administration			*		*
Chemistry		*			*
Communication		*			*
Computer Science				*	*
Earth and Space Science					*
Economics		*			*
Education	*				
English		*			*
Geography		*			*
Geology				*	*
History		*			*
Japanese Studies		*			*
Liberal Studies		*			
Admin. of Justice		*			
Drama		*			
Recreational Mgt.		*			
Religious Studies		*			
Linguistics		*			*
Marine Science		*			*
Mathematics		*			*
Music		*			*
Natural Science		*			
Nursing				*	
Philosophy		*			*
Physics		*			*
Political Science		*			*
Psychology		*			
Sociology		*			*

### Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language

	MA	BA	BBA	BS	Minor
Hawaiian Studies		*			*
Hawaiian Language & Literature	*				

## College of Agriculture, Forestry & Natural Resource Management (CAFNR)

The College of Agriculture, Forestry & Natural Resource Management opened its doors in the fall of 1975. The main objective of the college is to prepare students for a broad and full understanding of basic factors involved in production, management, processing, distribution, marketing, sales, and services in the field of agriculture, including aquaculture. While the college stresses hands-on production techniques and basic management programs, it also requires a core of basic science courses, as well as courses in general education. The College of Agriculture, Forestry & Natural Resource Management emphasizes small classes, a low student-faculty ratio, and excellence in teaching.

## College of Arts and Sciences

Established in 1947 as the Hilo Campus, with an enrollment of 46 students and using makeshift facilities, the campus functioned as an extension

division of the College of General Studies of the University of Hawai'i. Until 1954, the campus had only three full-time faculty members.

In 1955, with an enrollment of 155 students, the Hilo Campus entered into a second stage of development. It moved to the present 110-acre site, and took occupancy of the first building specifically designed for its use. The mission of the college during its second phase was to offer a two-year program with a concentration in the arts and sciences, and introductory courses in education, business administration, and engineering.

In 1969, the Board of Regents of the University of Hawai'i authorized transformation of the satellite campus in Hilo into a four-year college. A third year of studies was added to the curriculum in 1969, and a fourth in 1970, when the institution's name was changed from the Hilo Campus to Hilo College. In 1979, Hilo College was renamed the College of Arts and Sciences.

By the fall of 1997, the College of Arts and Sciences had grown to a faculty of about 145 serving approximately 2,504 students. The college is designed to offer a residential undergraduate experience emphasizing small classes and excellence in teaching.

In August 1996, the Board of Regents of the University of Hawai'i authorized the first master's degree at Hilo. This initial degree is a Master of Arts in Hawaiian Language and Literature.

## Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language

Established in 1997, Ka Haka 'Ula O Ke'elikōlani (The Venerable Standard of Ke'elikōlani) College of Hawaiian Language is the newest college at UH Hilo. It is named after the 19th century Hawaiian high chiefess, Ruth Ke'elikōlani Keanolani Kanāhoahoa, a staunch proponent of the Hawaiian language and culture, whose high standards the College seeks to emulate in its units and programs.

The Hawaiian Studies Unit emphasizes language acquisition, music, dance, literature, linguistics, traditional culture and education in a Hawaiian medium environment. At the junior, senior and graduate level, all courses are conducted exclusively in Hawaiian. At the freshman and sophomore level, selected classes are also taught only in Hawaiian. This unit delivers six programs: the B.A. in Hawaiian Studies, the M.A. in Hawaiian Language and Literature, the Minor in Hawaiian Studies, the Certificate in Hawaiian Language, the Certificate in Basic Hawaiian Culture and Certification through the Kahawaiola Hawaiian Medium Teacher Education Program. In addition, this unit houses the Hawaiian Studies Liberal Education Program, which provides a broad-based course of study for students entering UH Hilo from Kula Kaiapuni Hawaiian medium schools, as well as students with a particularly strong Hawaiian cultural background.

Another unit of the College is the Hale Kuamo'o Center for Hawaiian Language and Culture Through the Medium of Hawaiian. This unit supports and encourages the expansion of the Hawaiian language as a medium of communication in education, business, government and other contexts of social life in the public and private sectors of Hawai'i and beyond. The Hale Kuamo'o serves as the primary center for the development of instructional materials for Kula Kaiapuni Hawaiian medium schools statewide. It is also home to several significant entities which include the Hawaiian Lexicon Committee, the Polynesian Languages Forum Secretariat and two computer telecommunication systems, *Leokī* and *Kualono*.

## University After Dark

University After Dark is an evening schedule of classes offered by the University of Hawai'i at Hilo for students interested in obtaining a bachelor's degree after work or for anyone wanting to take a course or two for personal development. Emphasis is on general education courses, but it will eventually expand to upper-division courses in select majors.

## College of Continuing Education and Community Service (CCECS)

Activities including credit, non-credit, professional, and personal development courses, a customized English as a Second Language Program, extended degree programs, public lectures, seminars, conferences and workshops, cultural exhibits and performances, community development projects, and travel study and international programs are also offered through the University.

## The Students

The Strategic Priorities of 1997-2007 highlight the "Use of the Island as a Learning Laboratory" and the University does make excellent use of the physical and biological aspects of the Island both in academic courses and co-curricular activities, but just as essential is the use that is made of the rich cultural heritage and history of cooperation between ethnic groups. Not only is the University committed to being "responsive to the needs of a diverse student population," it is also committed to a learning environment that fosters intercultural understanding, appreciation and respect for those differences.

## Student Characteristics

The University values the diverse campus community as a vital contribution to the learning environment. In Fall 2000, the ethnic breakdown of students was:

Asian Pacific Islander	50.8%
Japanese	14.8%
Chinese	1.9%
Filipino	6.4%
Hawaiian/Part Hawaiian	17.8%
Pacific Islander	5.6%
Other Asian	0.9%
Mixed Asian/Pacific Islander	2.5%
American Indian/Alaska Native	0.6%
Hispanic	1.9%
Puerto Rican	0.4%
Other Hispanic	0.3%
Mixed Hispanic	1.2%
Caucasian	32.3%
Portuguese	1.6%
Other Caucasian	30.7%
African American	0.7%
Mixed Ethnic Background	13.8%

Students are diverse in many other ways. The majority, 77.4 percent of the students, are residents of Hawai'i. Students from the U.S. mainland account for 14.7 percent while students from U.S. affiliates and other countries contribute 7.9 percent. Women make up 61.3 percent of the student body and 38.7 percent are men. The average age is 26, with 64.8 percent between the ages of 18 and 24. Ten percent of the students report disabled status. Sixty-eight percent of the students are the first generation in their families to attend college. UH Hilo has the highest percentage of students (58 percent) in the UH system who receive federal financial aid.

## The Faculty

The faculty of the various colleges of the University of Hawai'i at Hilo are highly qualified and recognized experts in their disciplines and hold advanced degrees in their respective areas, are committed to quality education as a priority, placing a special emphasis on teaching and student-teacher interaction.

The faculty use the diverse natural, physical, cultural and economic resources of Hawai'i Island as a laboratory on the leading edge of many scientific, cultural, social and environmental issues. Hands-on experience as part of the learning process is an integral part of the curriculum in most discipline areas. The faculty deliver "Quality Learning with Aloha" in a personal, supportive and scholarly environment.

## Learning Resources

The University of Hawai'i at Hilo's Library and computer resources support the academic activities of the students and faculty.

**Library**-The Edwin H. Mookini Library, completed in 1981, is located in the heart of the campus.

Available to students are 260,000 bound volumes and 1,525 current periodicals from Hawai'i, the U.S. mainland, Asia, and Europe. Special formats collected include DVD's, audio and videocassettes, slides, compact disks, and microforms. In addition, the Library is a partial depository for both United States and Hawai'i State documents and currently holds more than 350,000 U.S. documents on CD and in print. Library computers are able to access a great deal of government information via the Web. The Hawaiian Collection houses the Library's extensive Hawaiiana holdings.

To ensure student proficiency in the use of these collections, the staff offers a comprehensive program of library instruction using a networked electronic library classroom.

Library materials aside, the UH Hilo Library provides other services and facilities that further the academic mission of the University. The Graphics Department supports instruction with graphics and reprography work. Other facilities in the Library include an audiovisual area with ample playback equipment. Students may also confer in the Library's group study rooms located throughout the building. The Library's PC lab provides access to word processing, statistical analysis, and Web page design software to support course work.

Computer technology is increasingly used to meet the information needs of the University community. The Library's catalog is now available on Hawai'i Voyager, a Web-based library management system. The Library's reference service is enhanced by electronic information on CD and via the Internet. Interlibrary loan services assist students and faculty obtain research materials from off-campus sources.

**Computing Center**-Academic facilities consist of 3 Sun Microsystem computers located on-campus and 5 Sun Microsystems computers located on the Manoa campus running the Solaris (UNIX) operating system. These systems support the needs of students, faculty and administration. The Computer Science department also operates and maintains a DEC AlphaServer running the Linux operating system.

There is a general PC lab at the Library for word processing, statistical analysis and course work. There are two general purpose electronic classrooms that are used as open labs when classes are not in session. Additionally, there are dedicated PCs for web browsing and e-mail access at the Library and Campus Center. A number of departments and the Student Housing office maintain their own networked PC Labs allowing access to local and remote computing resources.

## Center for Gifted and Talented Native Hawaiian Children (Nā Pua No'eau)

Nā Pua No'eau, the Center for Gifted and Talented Native Hawaiian Children, develops curriculum, conducts research and teacher training workshops, and provides educational enrichment activities to Hawaiian students throughout the State of Hawai'i. The Center is headquartered in Hilo with Outreach Sites at the University of Hawai'i at Mānoa, Kaua'i Community College, Maui Community College, Moloka'i Education Center, Lāna'i School, and the University of Hawai'i Center at West Hawai'i. Funding for its operations comes through the U.S. Department of Education's Native Hawaiian Education Programs and the Office of Hawaiian Affairs.

The Center provides a wide range of program activities from enrichment to high specialization in content areas such as aquaculture, astronomy, marine science, art, environmental science, architecture, volcanology, and voyaging. The program model is designed to make learning meaningful, applicable from a Hawaiian perspective. An educational pathway is designed to raise the educational and career goals of participating students. Those students showing strong interest in selected areas are provided opportunities to participate in highly specialized research and activities with experts.

Over 2,000 students annually have been participating over the past few years in the following programs: Super Enrichment Saturdays; Kamalani Children's Chorus; School and Community Partnerships and Activities; Summer Institute; Project Kupulau; Project Ho'omau; and Hawaiian Family Affair.

The Center staff provides training through workshops or through pre-arranged school or community partnerships.

Consistent with UH Hilo's Master Plan, Nā Pua No'eau helps to develop university partnership with public schools and the communities to increase participation of Native Hawaiian students in higher education.

## Women's Center

The UH Hilo Women's Center opened in 1990 to address women's concerns on campus and in the community. The Women's Center is committed to working toward the empowerment of women, encouraging women to take full control of their lives, working to end all forms of oppression, and to strengthen bonds among all women. Services include crisis counseling, peer support, information and referral to UH Hilo and

community resources, and support groups. The Center also coordinates and sponsors a wide variety of presentations (lectures, poetry readings, workshops, films) designed to increase awareness of issues relating to women and/or to promote women as leaders and role models. In addition, the Center houses a resource lending library (books and videotapes) available for use by students, faculty, staff and community members.

For more information, contact the Women's Center at 974-7306 or visit the Center located in Room 312 of the Campus Center.

## Hale Kuamo'o Center for Hawaiian Language and Culture Through the Medium of Hawaiian

The Hawaiian language is one of the two official languages of the State of Hawai'i and the University of Hawai'i at Hilo is acknowledged as a leader in its revitalization as a living language. In recognition of this achievement, UH Hilo receives legislative funding to provide services throughout Hawai'i that are specific to Hawaiian. The vehicle for these services is the Hale Kuamo'o Center for Hawaiian Language and Culture Through the Medium of Hawaiian, which was established by the Hawai'i State Legislature in 1989. It is housed in Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language.

The Hale Kuamo'o encourages and supports the use of Hawaiian as a medium of communication in education, business, government and other contexts of social life, both in the public and private sectors of Hawai'i and beyond. Toward this end, the Hale Kuamo'o focuses on five distinct areas: 1) the development of instructional materials for implementation in the Hawaiian medium schools in the state, 2) research of the Hawaiian language, 3) the creation of new vocabulary, dictionaries and grammatical terminology, 4) the production and distribution of literature for radio, newspaper, television, computer technology, telecommunications, and other related arts and media, and 5) teacher in-service.

## Hawai'i Small Business Development Center Network (SBDC)

UH Hilo has been designated as the lead center for the Hawai'i Small Business Development Center Network (SBDC). SBDCs draw from resources of local, state, and federal government programs, the private sector, and university facilities to provide managerial and technical help, research studies, and other types of specialized assistance of value to small business. These centers, which are generally located or headquartered on a campus, provide practical training for small business owners.

SBDCs are part of a business development program of the U.S. Small Business Administration (SBA). Although SBDCs operate under the general management and oversight of the SBA, the SBDC is jointly funded by the State of Hawai'i and the SBA.

The Hawai'i SBDC began operation in January 1990 with the State Director's Office and the Hawai'i Island Center. A network of centers on the other islands include centers on Kaua'i, Maui, and O'ahu.

Basic business assistance services are available to small business clients throughout the SBDC network under the direction and administration of the Hawai'i SBDC State Director. Individual consultation is provided without charge to small businesses. Services include business skills assessment, local, national and international market development, economic and business data analysis, financial analysis, assistance with process and facility design, technology transfer, planning and loan packaging, and business plan development. Training and educational programs are also provided.

For further information on the Hawai'i SBDC Network, contact Darryl Mleynek, State Director, at (808) 974-7515.

## The Kalākaua Marine Education Center (KMEC)

The Kalākaua Marine Education Center, in coordination with the Marine Science Department, supervises the activities of the diverse marine programs at the University of Hawai'i at Hilo including the Marine Science Summer Program, the QUEST field training course and the UH Hilo Marine Option Program. KMEC's programs are designed to take full advantage of the Big Island of Hawai'i's variety of marine environ-

ments ranging from deep ocean to coral reef to estuarine, and emphasize a hands-on approach to education.

## Marine Science Summer Program

The UH Hilo Marine Science Summer Program (MSSP) has received the Excellence of Program Award from the Western Association of Summer Session Administrators which represent some 80 colleges and universities in the western United States, Canada, and Mexico. The goals of the successful MSSP are to actively involve students in the educational process by melding hands-on education with traditional classroom techniques, and to provide students with extensive personal attention. The MSSP provides several introductory level courses like oceanography, marine biology, and the Hawai'i marine field experience. Upper division courses are offered in advanced oceanography laboratory, and tropical marine research investigations. These courses provide the more advanced student with a challenging curriculum in oceanography and the opportunity to conduct original research projects under the guidance of a faculty member. The MSSP also offers a wide selection of introductory and advanced courses each summer. Classes are taught on the Big Island and Midway Atoll National Wildlife Refuge in the Northwest Hawaiian Islands.

## QUEST - Quantitative Underwater Ecological Surveying Techniques

QUEST is a course designed to teach undergraduates underwater ecological surveying methodologies, to train them how to design, implement, and analyze a research project, and to teach them how to identify common seaweeds, corals, invertebrates and fishes residing on Hawaiian reefs. It is a unique two-week long, full-time course in which faculty, staff, and students from the entire University system come together on the Hilo campus. After several days of classroom lecture and orientation, five days are spent surveying the coral reefs off Puako, Hawai'i, using scuba. Following the field survey, students return to the Hilo campus to analyze data and prepare written and oral reports.

## Marine Option Program (MOP)

Please see MOP program description under College of Arts and Sciences, Special Programs.

## KMEC Facilities

The Kalākaua marine Education Center (KMEC) operates the R/V Four Winds, a 53-foot research/education power catamaran used to support marine science courses and student research, and capable of carrying more than 30 students and deploying current meters, drogues, sediment coring apparatus and plankton tows. An 18-foot Larson motorboat is used as a nearshore research vessel and two Zodiac inflatable support SCUBA diving operations. KMEC maintains an inventory of SCUBA equipment for research diver training and *in situ* research projects. Underwater video systems and an editing station are available for use by students doing Marine Options Program skill projects or senior thesis research. In addition, an in-house computer graphics facility allows students to prepare state-of-the-art presentations on their research projects. Scanning and transmitting electron microscopes are also available to students in the Marine Science degree program.

## Minority Biomedical Research Support Program (MBRS)

The National Institutes of Health continue to fund a major program in biomedical research at the College of Arts and Sciences. The program is intended to encourage research in the biomedical sciences at universities that have large percentages of students from ethnic minorities which are under-represented in biomedical research careers. Students in the program work with the faculty in anthropology, biology, psychology and other disciplines on research projects. Students who are selected for the program are paid full-time work during the summer and part-time during the academic year. Through these projects, students gain training in scientific research and preparation for post-baccalaureate studies. For further information, contact the MBRS Program Director, Social Sciences Division, College of Arts and Sciences; (808) 974-7460.

## Writing Intensive Program

UH Hilo's Writing Intensive Program is part of a systemwide movement to incorporate more writing in courses from all disciplines. A "WI" course is a discipline-specific content course in which writing plays a major, integrated role. Students can enroll in course sections designated as "WI" to gain greater understanding of course content through writing, and learn how to write in ways appropriate to that discipline.

The hallmarks of a writing intensive course are:

1. Writing promotes learning of course materials.
2. Writing is considered to be a process in which multiple drafts are encouraged.
3. Writing contributes significantly to each student's course grade.
4. Students do a substantial amount of writing. Depending on course content and the types of writing appropriate to the discipline, students may write critical essays or reviews, journals, lab reports, research reports or reaction papers.
5. To allow for meaningful professor-student interaction on each student's writing, the class is restricted to 20 students.

For further information, contact the Humanities Division, (808) 974-7479.

## UH Hilo Writing Center

The UH Hilo Writing Center provides assistance to students on academic writing assignments. Under the supervision of an English faculty member, student tutors help students to work on critical thinking skills, discover and develop topics, generate information to support ideas, organize information, refine the style of a paper, and edit their own papers. Tutors can also review a previously graded assignment to help students improve future performance.

Instructors in all disciplines are invited to refer students to the Writing Center for help with specific writing skills.

The Writing Center is located in the Library Room 239, inside of the PC Lab. It is open during Fall and Spring semesters only. The Center is closed on holidays and semester breaks. Questions about the Center can be directed to the Writing Center Coordinator at (808) 974-7545.

## New Student Orientation

*Welcome and Orientation:* Orientation week provides each new freshman and transfer student with opportunities to learn more about the campus, the Big Island and the Hilo community.

*Academic Advising:* Academic advisors assist new students with course selection and registration during the orientation week. After new students enroll, they are assigned to a specific academic advisor, who provides continuing advisement support and guidance.

UH Hilo also conducts early registration and academic advising sessions for new students entering in the Fall semester. These day-long sessions are held throughout the summer on the Hilo campus and at various locations statewide. Students learn about degree programs and requirements and are provided assistance with selecting and registering for courses.

For more information, contact the New Student Orientation office, (808) 974-7381.

## Nondiscrimination Policy

The University of Hawai'i is an equal opportunity/affirmative action institution and is committed to a policy of nondiscrimination on the basis of race, sex, age, religion, color, national origin, ancestry, disability, marital status, arrest and court record, sexual orientation, and veteran status. This policy covers academic considerations such as admission and access to, participation and treatment in the University's programs, activities and services. With regard to employment, the University is committed to equal opportunity in all personnel actions such as recruitment, hiring, promotion, and compensation. Sexual harassment is expressly prohibited under University policy.

The University strives to promote full realization of equal opportunity through a positive, continuing program in compliance with the affirmative action in employment mandates of federal Executive order 11246. The program includes measuring performances against specific annual goals, monitoring progress, and reporting on good faith efforts and results in annual affirmative action plan reports. As a government contractor, the University is committed to an affirmative policy of hiring and advancing in employment qualified persons with disabilities, disabled veterans, and veterans of the Vietnam era.

For information on equal opportunity policies or complaint procedures for the University of Hawai'i at Hilo, contact the following persons:

Students: Dr. Keith Miser  
Vice Chancellor for Student Affairs  
Student Services Building, Room 208  
Phone: (808) 974-7334

Employees: EEO/AA Director  
Phone: (808) 974-7311

UH Hilo recognizes its obligations to provide overall program accessibility for persons with disabilities. To obtain information on services for persons with disabilities contact the University Disability Services Office at (808) 933-0816, (808) 933-3334 (TTY).

## Sexual Harassment and Sexual Assault

It is the policy of the University of Hawai'i to provide a safe and comfortable learning and working environment for students and employees. The University recognizes the serious issues concerning sexual harassment and sexual assault. Sexual harassment is a form of sex discrimination that can undermine the foundation of trust and mutual respect that must prevail if the University is to fulfill its educational mission. Sexual assault is defined by the Hawai'i Penal Code and it is University policy that, with the consent of the victim, all reported instances of sexual assault will be investigated by law enforcement agencies and appropriate support services will be provided. Sexual harassment and sexual assault will not be tolerated in any part of the University's programs and activities. Sanctions will be imposed on the members of the University community who violate this policy.

### HELP IS AVAILABLE:

#### Obtaining Information and Assistance:

Sexual harassment is sex discrimination and, therefore, illegal. Even if you are unsure that what you are experiencing is harassment, call any of the following persons listed below for information and assistance.

#### Complaint Procedures:

The Vice Chancellor for Student Affairs or the EEO/AA Director can give you information on informal and formal complaint procedures. In many cases, informal procedures are effective in stopping sexual harassment. Formal complaint procedures exist to protect all students and employees.

University Counseling Services  
Sexual Harassment Counselor for Students  
Student Services Building, Room 204  
Phone: (808) 974-7312

Dr. Keith Miser  
Vice Chancellor for Student Affairs  
Student Services Building, Room 208  
Phone: (808) 974-7334

EEO/AA Director

Cassandra Wylie  
Coordinator, Women's Center  
Campus Center, Room 312  
Phone: (808) 974-7306

## Notice to Persons with Disabilities

In accordance with federal and state law, it is the policy of the University of Hawai'i at Hilo that no otherwise qualified person with a disability shall, solely on the basis of that disability, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination by any University program or activity. UH Hilo also adheres to a set of institutional policies and procedures for non-discrimination on the basis of disability. For a copy of the policies and procedures, contact the Office of the Vice Chancellor for Student Affairs at (808) 974-7335. The University's Disability Services Coordinator is Susan Shirachi Gonsalves, (808) 933-0816 (V) or (808) 933-3334 (TTY).

Services for students with a disability are provided by the Student Support Services Program (if the student meets the program's eligibility criteria) or through the University Disability Services Coordinator. Faculty and staff requesting accommodations should contact their supervisor and/or the ADA coordinator.

All service animals (i.e., any guide dog or signal dog that is individually trained to provide assistance to a person with a disability) is welcome to accompany the person with a disability while on the University of Hawai'i at Hilo campus. UH Hilo staff may inquire of the documentation of the service animal and the individual's accommodation request. Certain medical or laboratory settings may by its nature prohibit service animals due to hygiene reasons. Please be aware that the service animal must be leashed, remain under the control and direct supervision of the person with a disability and not stray unattended, and exhibit non-disruptive behavior while in a classroom or work setting.

To file a complaint, students should contact the Office of the Vice Chancellor for Student Affairs at (808) 974-7335 for a copy of the complaint procedures. Formal complaints will be handled by a Grievance Officer (typically the EEO/AA Officer). Faculty, staff and members of the public should contact the EEO/AA Officer at (808) 974-7575 to file a complaint.

## University Disability Services Office

The University Disability Services Office provides services and supports to disabled students, faculty, staff of the University of Hawai'i, at Hilo (UH Hilo), in compliance with Section 504 of the Rehabilitation Act (1973) and the Americans with Disabilities Act. Supports to the general public is in the form of auxiliary aids and services for those utilizing campus facilities. The provision of direct service operates in conjunction with the Student Support Services Program, and focuses on accommodation and access issues relating to the student with disability's educational needs. In addition to serving as an advocate for people with disabilities at UH Hilo, the office also provides consulting on reasonable accommodations for University employees with disabilities, facilities development, public accommodations for campus programs, services or activities, educational and awareness programs, and general support for diversity activities at UH Hilo. Services and support provided through the University Disabilities Office include:

- Disability Review and Referral for Assessment
- Provision of Accommodation
- Disability Counseling
- Faculty and Staff Development
- Policy review and Implementation
- University Liaison
- Campus and Community Disability Resource
- Diversity Club Advisor

For University Disability Services information, contact:  
 Susan Shirachi Gonsalves, Director  
 200 W. Kawili St.  
 Hilo, HI 96720-4091  
 Phone: V(808) 933-0816, TTY (808) 974-7335  
 Email: shirachi@hawaii.edu

## Policy for Responsible Computing and Network Access

This policy applies to all computing, information and network resources administered by the University of Hawai'i Information Technology Services Division. It is posted in all University computer labs and is available at the Reference Desk in the Library. The URL for the policy is [www.hawaii.edu/infotech/policies](http://www.hawaii.edu/infotech/policies).

## Campus Parking

To park a vehicle on the Main Campus, a University Parking Permit is required during the Fall and Spring semesters. Parking applications are available at the UH Hilo Security/Parking Office, Auxiliary Services Building #300, Room 101. Parking permits are sold by the semester and/or academic year on a first-come, first-served basis with proof of class registration (copy of fee slip) or current validated student identification card.

## Persistence Rate

Recent federal legislation, commonly referred to as the "Student-Right-to-Know Act" requires universities receiving federal funds to report graduation rates of students who first enrolled in Fall 1991. As not enough time has elapsed since Fall 1991 to make such data meaningful, institutions have been allowed to publish persistence rates. "Persistence rate" is defined as the percentage of full-time, first-time, degree or certificate seeking undergraduates entering a campus in Fall 1999, who re-enrolled at the same campus in Fall 2000. The persistence rate for UH Hilo is 60.4%.

## Bookstore

Textbooks and other educational materials and equipment are sold at the UH Hilo Bookstore, as well as convenience and personal items and clothing. The Bookstore is located on the ground floor of Building 346.

### Bookstore Hours:

**Regular hours:** 8:00 a.m. to 3:30 p.m., Monday through Friday  
**Saturday before start of classes:** 8:00 a.m. - noon  
**First three days of classes:** 8:00 a.m. - 8:00 p.m.  
**Remainder of week:** 8:00 a.m. - 5:00 p.m.

### Refund Policy (Receipt Required):

Full refund on item(s) returned within 7 calendar days of purchase date if in clean, unmarked, and saleable condition. 75% refund on new books returned within 7 calendar days of purchase date if in soiled or marked condition.

**Exception:** Full refund on books purchased within 14 calendar days from the first day of instruction of a current semester if in clean, unmarked, and saleable condition; 75% refund if soiled or marked.

Defective books, supplies, or clothing may be exchanged, refunded, or reordered at no extra charge.

No refund on catalogs and computer software.



# CO-CURRICULAR ACTIVITIES

## Student Organizations

Co-curricular learning, through activities, programs and services, is integral to the students' total higher education experience. This learning helps to prepare our students for the transition toward independence and self-responsibility and to support their life and career changes.

The University of Hawai'i at Hilo offers a wide range of student-administered programs, activities and services to meet the social, educational, cultural, and recreational needs of the UH Hilo community. The major organizations providing this programming are the University of Hawai'i at Hilo Student Association (UHSA), Student Activities Council (SAC), and the Board of Student Publications (BOSP). These organizations are funded by the fees assessed each semester to all enrolled students at UH Hilo. The fees also support operation of the Campus Center Gameroom, the intramurals program and the Campus Center Gallery.

Students pursuing a recognized degree program who have a cumulative grade point average (GPA) of 2.0 or above may participate in student government, activities council, intercollegiate athletics, publications and selected University committees. Each organization has further qualifications for participation and any student interested in these activities should contact the Campus Center Coordinator.

UHSA represents all UH Hilo students. Its primary responsibilities include research, education and action related to campus and academic issues and problems, sponsoring programs of interest and benefit to students, and participation in UH Hilo policy making.

The Student Activities Council offers a variety of cultural, educational, recreational and social programs for UH Hilo and HawCC students, faculty, staff and the general public.

The Board of Student Publications is the student-faculty committee which oversees student publications. These include *Ke Kalahe*, the campus student newspaper, and *Kanilehua*, a literary and arts journal. Students interested in becoming involved with student publications should drop by the offices located in the Campus Center.

Students with special interests may choose to join any of the forty-plus clubs which are active during the academic year. Clubs must be officially registered with the Campus Center Coordinator in order to utilize campus facilities, sponsor UH Hilo-related activities or to receive funding from the UHSA or SAC. The Campus Center also provides orientation and training opportunities for registered clubs and organizations throughout the year.

Student organizations and clubs provide opportunities for students to acquire leadership skills, interact with other people, and participate in recreational and academically related activities.

The student life program, in complement with our academic program, is designed to enhance the total development of our students.

Student and residence life provide hands-on opportunities to practice concepts and skills that compliment and enhance their academic learning.

## Ensembles

**University Chorus:** A large choral organization that performs major, large-scale choral works. Any student may join this group.

**University Chamber Singers:** A highly select group that performs a wide variety of choral music. This group performs throughout the community and in University concerts.

**Vulcan Band:** A jazz-rock ensemble which performs at Vulcan basketball games and other selected events.

**Wind Ensemble:** An auditioned instrumental ensemble performing wind band and chamber music.

**Jazz Ensemble:** This group performs traditional and fusion jazz literature from swing to contemporary.

**Collegium Musicum:** A group specializing in Early Music, with particular emphasis on recorder music. Open to all interested students and faculty.

**Chamber Ensembles:** Small groups of varied instrumentation/voices, which may include strings, brass, percussion, voices, and winds separately or combined.

**Dance Ensemble:** A select performing group of dancers, presenting public concerts of modern, jazz, classical and traditional dance forms. Performances are often choreographed by invited artists of national reputation.

## University of Hawai'i at Hilo Theatre

The UH Hilo Theatre is the major performing arts educational and cultural center on the Big Island, serving as a joint facility for the University and Big Island communities. The primary purpose of the Theatre program is to offer significant educational and diverse cultural opportunities for the University and Big Island communities where dialogue, the exchange of cultural and artistic ideas, and co-curricular activities are encouraged.

The Theatre produces, presents, and/or co-sponsors an extensive and culturally diverse year-round season of local, regional, national and international performing arts events performed by some of the world's greatest artists. The quality of events presented in the 600-seat Theatre is equal to any offered by major mainland universities. A typical season includes over 150 performances of dance, drama, music, mime, children's shows and special events. Average yearly attendance is over 60,000.

The Theatre program also produces and mounts four to ten plays, musicals and/or dance performances each season. Interested faculty, staff, students and community members are encouraged to participate in the activities of the University Theatre.



photo by Susan Collins



# ATHLETICS

## Intercollegiate Sports

The University of Hawai'i at Hilo Athletic Department offers full-time students opportunities to continue their pursuit of athletic prowess through intercollegiate athletics and intramural recreation.

On the intercollegiate level, the Vulcans are members of the National Collegiate Athletic Association's Division II in men's basketball, cross country, golf, and tennis, as well as women's cross country, softball, tennis, and volleyball. All but golf and tennis compete in the Pacific West Conference. The men's baseball team competes on the NCAA Division I level as an independent.

A relatively newcomer to the collegiate athletic arena, Vulcan Athletics began playing a full four-year college schedule in the mid-70's as members of the National Association of Intercollegiate Athletics (NAIA) and quickly established itself as a prominent athletic program. In 1994, Vulcan Athletics joined the NCAA and Pacific West Conference.

History reveals a strong showing in the NAIA as teams quickly and consistently participated in championship competition. The basketball program advanced to the NAIA National Tournament in its infancy with District Championships in 1977, '78, '80 and '87. In the 21st century, the youthful exuberance of a new coaching staff has revitalized the excitement of the program that once captured the attention of the state.

Volleyball and baseball were the next team sports to join the ranks of national prominence. Volleyball captured seven national titles and an unprecedented two in 1981: first in the NAIA, then the AIAW championships. In its first four years as a member of the NCAA, the program advanced to three regional tournaments. Baseball has appeared in three NAIA World Series Tournaments.

Softball, the youngest of the team sports, traces its roots back to the late '80s. Within five years of its inception, the program finished fourth in the 1992 NAIA Softball World Series.

Cross country has been one of Athletic's most consistent performer with regular appearances in the Division II regional and individual performances in the National Championship. Tennis took the spotlight in the late 1997 when both men's and women's teams were ranked second in the regional poll. The men finished that season at the national championship tournament.

NCAA experience continues to improve for all nine sports. To get to the top, the Vulcans compete against the best by hosting a few of the nation's top collegiate tournaments. Volleyball hosts the Hawaiian Style Classic, which annually attracts the top Division II programs. Basketball welcomes seven Division I teams for the annual Big Island Invitational Basketball Tournament during Thanksgiving weekend. Golf is the host to the Taylor Made Intercollegiate Invitational, which has included seven of the top 10 Division I programs in its 24-team field.

## Intramural Recreation

### Activities

3-Point Shooting  
 Doubles Ping Pong  
 Free-throw Shooting  
 Basketball  
 2-Person Sand Volleyball  
 Water polo  
 Co-Ed Indoor Soccer  
 Co-Ed Ultimate Frisbee  
 3.5 Double Tennis  
 Volleyball Serve  
 8-Ball  
 Co-Ed Kickball  
 Doubles Pickle Ball  
 2-Person Scramble Golf Tournament  
 Co-Ed 5-on-5 Soccer

### Leagues

Novice/Open Volleyball  
 Softball  
 Men's and Women's  
 Over the Line Softball



photo courtesy of UH Hilo Vulcan Athletics

# STUDENT AFFAIRS

FOR INFORMATION, PLEASE CALL:

Office of the Vice Chancellor for Student Affairs  
(808) 974-7334  
(808) 974-7691 (FAX)  
Student Services Building  
Room 208

The Office for Student Affairs supports the academic goals of UH Hilo by providing programs and services to support the academic, personal and social development of students. A broad range of services is provided to facilitate access to higher education, encourage involvement in campus life, strengthen academic performance, develop leadership skills, enhance personal growth and interpersonal skills, and promote multicultural awareness. These services include: admissions and outreach; registration and records; financial aid; new student orientation; housing; student exchange programs; educational, personal and vocational counseling; testing; health services; Campus Center and student activities; drug abuse prevention; and Educational Opportunity Programs.

UH Hilo is also an institutional member of Campus Compact, a national organization of colleges and universities committed to developing and encouraging public and community service. UH Hilo recognizes the importance of volunteerism and public service as integral parts of the university experience, and both curricular and cocurricular programs support service-learning opportunities.

While most student services offices are located in the Student Services Building, programs are also offered in student housing, and at the Campus Center.

## Counseling

Individual and/or group counseling is provided by appointment or walk-in in the following areas:

1. **Academic:** To help students be successful in their course work. Includes learning and study strategies, academic rules and regulations and educational options.
2. **Personal:** To assist students in the development of self-esteem and positive interpersonal relationships as well as in the resolution of problem behaviors such as stress, substance abuse, and depression.
3. **Career:** To help students identify career alternatives appropriate to their interests, abilities, and values. Interest inventories and resource materials are available in the Career Center.
4. **Job Placement:** To assist students obtain part-time off-campus jobs as well as permanent full-time employment. Includes job search strategies, resume writing, and interviewing skills.
5. **Graduate/Professional School National Testing Programs:** To provide information, applications, and testing services. Most national examinations are given on campus at scheduled times throughout the year.

In addition to responding to student requests for assistance, Counseling Center staff outreach to students with special needs. Through a cooperative arrangement with faculty, for example, students who are observed early in the semester to be having difficulty in a course are referred for immediate counseling through the Academic Counseling Referral Program. In addition, all students on first time academic probation receive letters as part of the Academic Success Program inviting them to avail themselves of various forms of counseling assistance.

Counselors play an active role in presenting self-development workshops open to the University community. Topics include various aspects of learning skills as well as personal and career development.

## Disability Services

Disability support for students are provided by the Student Support Services Program (if the student meets the program's eligibility criteria) or through the University Disability Services Coordinator. Requests for services must be made in a timely manner. Auxiliary aids and services available to students with documented disabilities include, but are not limited to, the following:

- Campus orientation
- Registration assistance
- Personal, academic and career counseling
- Tutorial, reader, notetaker, and other support services as determined
- Classroom and testing accommodations
- Taped textbooks
- Cassette recorders
- Talking calculators

For more information about the Student Support Services Program, refer to the "Educational Opportunity Programs section" of this catalog. The following individuals may be contacted regarding information about disability services:

Mr. Jim Mellon, Student Support Services Program  
Student Services Building, Room 211  
200 W. Kawili St.  
Hilo, Hawai'i 96720-4091  
Voice: (808) 974-7616  
TTY: (808) 974-7335  
mellon@hawaii.edu

Susan Shirachi Gonsalves  
University Disability Services Coordinator  
Campus Center 311  
200 W. Kawili St.  
Hilo, Hawai'i 96720-4091  
Voice: (808) 933-0816  
TTY: (808) 974-7335  
shirachi@hawaii.edu

## Financial Aid

The Financial Aid Program at the University of Hawai'i at Hilo is designed to provide financial assistance to students who without such assistance would not be able to attend college. Depending on the availability of funds, assistance is offered only after it is determined that the financial resources of the family are insufficient to meet a student's educational expenses. The amount of financial assistance offered to a student will not exceed the difference between his/her educational expenses and the amount which the family can reasonably be expected to contribute, taking into consideration its income, assets, number of dependents, and other relevant information. Financial assistance may be awarded under one or more scholarship, grant, loan, or employment programs.

**Eligibility.** To qualify for financial assistance, a student must establish financial need by means of the appropriate applications; be a classified student enrolled on at least a half-time basis; be making satisfactory academic progress toward a degree; and be a U.S. citizen or national, or a permanent resident of the U.S. or Palau, or a citizen of the Federated States of Micronesia or the Marshall Islands.

Non-U.S. citizens are eligible for consideration for financial aid only if they have been admitted to immigrant status or refugee status. Such individuals will be required to show their Alien Registration Receipt Card

or I-94 bearing the appropriate endorsement by the Immigration and Naturalization Service.

Information listed is subject to change in accordance with revised regulations or guidelines.

For more information and/or application forms, contact: Financial Aid Office, University of Hawai'i at Hilo, 200 W. Kawili Street, Hilo, Hawai'i 96720-4091, telephone (808) 974-7323/974-7324, or 974-7540 or visit the Web site at <http://www.uhh.hawaii.edu/uhhiloweb/stuserv/finaid.htm>.

**Application Procedures.** Students are required to file a Free Application for Federal Student Aid (FAFSA) or the Renewal FAFSA. Supporting documents must be submitted to the UH Hilo Financial Aid Office in order to be considered for ALL financial assistance programs administered by the University of Hawai'i at Hilo. These forms are available from high school counselors or any college or university financial aid office. Students must apply and qualify annually on the basis of demonstrated financial need. The application deadline is March 1 of each year. Late applications will be accepted on a first-in, first-served, funds-available basis.

**Awards.** Completed applications are generally processed within a two- to three-week time period. Students who are eligible for financial aid will be notified by mail of the type and amount of the award as soon as possible after the University has received its state and federal allocations of financial aid funds. Normally, checks for each award are given to students on or after the first day of classes and at other times specified in the award letter.

Selection criteria for aid recipients will be determined by the UH Hilo Financial Aid Advisory Committee during the spring semester preceding the academic year. A copy of these selection criteria can be obtained from the Financial Aid Office, located on the first floor of the Student Services Building.

**Financial Aid Satisfactory Progress.** To be eligible for financial aid students must maintain a cumulative grade point average of 2.0. If this goal is not attained, the student will be placed on financial aid probation and must achieve at least a 2.0 semester average until a 2.0 cumulative grade point average is attained. After the conclusion of their sophomore year students must maintain a 2.0 cumulative grade point average to receive financial aid. An undergraduate student may receive aid for a time period of 12 semesters.

Students with questions should contact the Financial Aid Office for detailed information and policy interpretation.

## Types of Financial Aid

The following types of financial assistance are available to students attending the University of Hawai'i at Hilo.

### SCHOLARSHIPS AND GRANTS

#### STATE GOVERNMENT:

**UH Hilo Tuition Waivers:** State Tuition Waivers are available to resident students who are in need of financial assistance or to resident or nonresident students who merit assistance because of their achievement or service to the university. All applicants must be enrolled or planning to enroll as a full-time classified student with a minimum GPA of 2.0 or better.

The Hawai'i State Tuition Waivers based on financial need do not require specific application forms other than those required for the student financial aid programs, i.e., Free Application for Federal Student Aid. Please refer to the booklet entitled "A Guide to Financial Aid at the University of Hawai'i" for specific application procedures.

Application forms for the non-need Tuition Waivers based on achievement or service are available at the office of the respective college dean, other University units, or the high school counselor as follows:

#### College of Arts and Sciences

*(achievement or service)*

Dr. Stephen Worchel, Dean

#### College of Agriculture, Forestry & Natural Resource Management

*(achievement or service or entering freshman)*

Dr. Michael Collier, Dean

#### Athletics

*(service)*

Ms. Kathleen McNally, Athletics Director

#### Student Services

*(graduating seniors from Hawai'i Island High Schools)*

- a) National Merit Scholarships; achievement or service  
Dr. Keith Miser, Vice Chancellor,  
Office for Student Affairs
- b) Graduates of Big Island High Schools -  
Your High School Counselor
- c) Upward Bound Program Services  
Your Upward Bound Director

#### Tuition Waivers for Students of Hawaiian Ancestry:

Students of Hawaiian ancestry from outside Hawai'i automatically qualify for residency. In addition, there are full tuition waivers available for students of Hawaiian ancestry.

Application forms for these need-based Tuition Waivers are available at the respective UH Hilo department offices as follows:

- \* Hawaiian Studies Division Chairperson
- \* Hawaiian Leadership Development/Student Support Services/  
Minority Program Directors
- \* Education Department

**Pacific-Asian Scholarship:** Tuition Waivers are available for students enrolled or planning to enroll as a full-time classified student pursuing a course of study important to the Pacific-Asian region. Recipients must meet academic criteria indicating superior performance in their chosen field of study. Minimum 3.0 cumulative GPA required.

**Additional Athletic Scholarships and Tuition Waivers are available through the Athletic Department. Contact the Athletic Director; (808) 974-7621 or (808) 974-7520.**

#### STATE AND FEDERAL GOVERNMENT:

**Leveraging Educational Assistance Partnership Program:** Provides tuition grants to qualified and needy undergraduates who are bona fide residents of the State of Hawai'i. To qualify, a student must also be eligible for the Federal Pell Grant.

#### FEDERAL GOVERNMENT:

**Federal Pell Grant:** Provides eligible classified students, who are undergraduates, with a "floor" of financial aid to help defray the cost of post-secondary education.

**Federal Supplemental Educational Opportunity Grant:** Provides assistance to undergraduates with exceptional financial need.

#### ENDOWED AND OTHER SCHOLARSHIPS (PRIVATELY SPONSORED)

The purpose of the Scholarship Program at the University of Hawai'i at Hilo is to recognize and reward students who have demonstrated outstanding academic performance and to encourage those students who show academic potential and a willingness to participate in community activities. The scholarship awards imply the expectation of continued exceptional performance and leadership by the recipients in the years ahead.

UH Hilo scholarship funds come from various sources such as private donors, foundations, professional associations, and state and local business firms.

### SPECIFIC SCHOLARSHIPS

Qualified students who are enrolled or plan to enroll in full-time study at the University of Hawai'i at Hilo may apply for the following scholarships:

**Regents Scholarships for Academic Excellence:** These highly competitive academic scholarships are awarded to 20 incoming freshman at any University of Hawai'i campus who are residents of Hawai'i. These awards, which are renewable for qualified students, consist of \$4,000, a tuition waiver, and a one-time travel grant.

**Presidential Scholarships:** These highly competitive academic scholarships are awarded to ten college juniors who are residents of Hawai'i and enrolled at the Manoa, Hilo or West Oahu campuses of the University. These awards, which are renewable for qualified seniors, consist of \$4,000, a tuition waiver, and a one-time travel grant.

**Barney S. Fujimoto Memorial Scholarship:** Six or more \$1,000 awards given annually through Big Island high schools to graduating high school seniors with financial need. Contact your high school counselors for an application.

**College of Arts and Sciences Business Administration Rising Senior Achievement Award:** A one-year tuition waiver given by the Business and Economics faculty in September to the senior who earned the highest GPA in his/her previous years in the College of Arts and Sciences (minimum GPA required). No application required.

**Alice E. Healy Art Student Scholarship Fund Scholarship:** Awards made to students enrolled in the Art Discipline course work. Award amount varies and funds may be utilized for varied purposes, including the purchase of supplies and materials required for coursework and independent projects; travel and registration expenses for workshops, lecture/demonstrations and exhibition visitation in the State of Hawai'i.

**Rotary Club of South Hilo:** \$500 scholarships awarded annually to students enrolled in the College of Arts & Sciences who have demonstrated an interest in Ecology or Environmental Studies.

**Hawai'i Island Chamber of Commerce Scholarship:** \$1500 scholarship (\$750 payable each semester) awarded annually to UH Hilo students with declared majors in Business Administration and/or Economics for use in their junior or senior year.

**Daniel G. Fox Prize for Excellence in Computer Science:** Daniel G. Fox was a UH Hilo Computer Science major who would have graduated in December, 1990. In his memory, the \$500 Daniel G. Fox Prize for Excellence in Computer Science (which also includes a year-long university tuition waiver) is awarded each year to the incoming Computer Science senior who demonstrates the greatest academic achievement. Applicants begin by writing a letter to the Computer Science department requesting consideration and setting forth anything which the applicant considers appropriate in support of the application.

**Carol McCall Memorial Scholarship:** \$250 per semester scholarship awarded each semester to applicants from UH Hilo-West Hawai'i Campus who have at least one semester at UH Hilo-West Hawai'i with a minimum cumulative GPA of 2.5.

**Hawai'i County Farm Bureau Scholarship:** One \$500 scholarship is awarded annually to a deserving UH Hilo College of Agriculture full-time student who has accumulated at least 28 credits upon entering his/her sophomore year. Applicants must be graduates from a local high school, must have at least a 3.0 cumulative GPA, and have a sincere interest in promoting the agricultural industry on Hawai'i island.

**Hawai'i Anthurium Industry Association Scholarship:** One \$1,000 scholarship (\$500 per semester) is awarded to a deserving UH Hilo College

of Agriculture full-time student majoring in Tropical Crop Production. Applicants must be entering their junior year and have been a student at UH Hilo for four semesters. They must have at least a 2.5 cumulative GPA and have a sincere interest in promoting the Floriculture industry. Award is intended for students who plan to live on Hawai'i Island, and who have entrepreneurial desires in the Horticulture field.

**Beatrice Campbell/Beckley/Hoowaiwai Farms Scholarship:** Scholarship(s) awarded annually to College of Agriculture students who are graduates of Big Island high schools.

**C. Brewer and Co. Achievement Award:** A \$500 achievement award is given to the College of Agriculture sophomore who earned the highest GPA in the previous year as an entering full-time freshman in agriculture. The recipient must be a graduate of a high school in the State of Hawai'i. No application required.

**Dr. Frederick K. Tom Memorial Scholarship:** \$500 scholarship awarded annually to a graduating Hawai'i Island High School senior or entering junior or entering senior in the College of Agriculture. Minimum 2.5 cumulative GPA required. Renewable, but must reapply the following year.

**Big Island Pork Industry Association Scholarship:** An annual \$250 scholarship awarded to a full-time Junior or Senior in the College of Agriculture majoring in Animal Science. Student must submit an essay of 750 words or less describing an issue facing the pork industry in Hawai'i and provide solution(s), and two letters of recommendation from current or former professors or employers. Submit application to the Dean, College of Agriculture, by March 1.

**Jack & Otome Miyashiro Endowed Athletic Scholarship:** One award of approximately \$1250 awarded annually to a UH Hilo student with demonstrated athletic ability meeting the NCAA eligibility requirements.

**Mr. & Mrs. George D. Hall Jr. Memorial Athletic Scholarship:** Awarded to a designated student athlete at UH Hilo. This scholarship, which can be renewable to the same student for as many as five years, will provide the total cost of tuition, books, fees, room, and board. Financial need is not necessary.

**Athletic Scholarships are available through the Athletic Department. Contact Mr. William Trumbo, Athletic Director, at 974-7621 or 974-7543.**

**The following 27 scholarships are incorporated into a single application which may be obtained by contacting the Financial Aid Office.**

**Alpha Delta Kappa, Delta Chapter Scholarship:** \$500 scholarship awarded annually to qualified students enrolled or planning to enroll in the Education Department's Professional Degree Program (Undergraduate and Graduate). Minimum 3.0 GPA required.

**Ruth E. Black Scholarship:** Scholarships of \$200 or more awarded to students who demonstrate the potential for academic growth and achievement. First priority for scholarships shall be given to the sons and daughters for engineers, contractors and construction workers. Second priority shall be given to students pursuing construction-related fields of study: engineering, pre-engineering, architecture, drafting, carpentry, construction trades, etc. Third priority shall be given to all other well-qualified students.

**Larry Child Scholarship:** \$1,500 or more awarded annually. Recipients must be Hawai'i residents. Four-year renewable scholarship but must apply each year.

**Thomas E. Cook Memorial Scholarship for Humanities:** \$500 scholarship offered by the Church of the Holy Apostles in Hilo, awarded annually to students with a major area of study in the Humanities (e.g. Art, English, Language, Music, Philosophy, Religious Studies, Speech). Recipients must be Big Island residents. All qualifications being equal, preference will be given to students of Hawaiian ancestry.

**Criminal Justice Scholarship:** Annual awards (amount of awards dependent on income from investments) for Hawai'i State resident students interested in making community service contributions on the Island of Hawai'i to needy individuals or charitable organizations or agencies that serve the needy.

**Martin K. Doudna Memorial Scholarship:** \$500 awarded annually for Junior and/or Senior year study in the English program. Minimum 3.5 GPA required.

**Hawai'i Island Retired Teachers Association:** \$500 scholarship awarded annually to qualified students enrolled or planning to enroll in the Education Department's Professional Degree Program (Undergraduate and Graduate). Minimum 3.0 GPA required.

**Hawai'i Veteran's Memorial Fund:** \$350 scholarships awarded annually to UH Hilo students with minimum cumulative GPAs of 2.5 for Freshman/Sophomore and 2.75 for Juniors/Seniors. Must be a Hawai'i resident. Renewable but must apply annually.

**Charles R. Hemenway Scholarship:** Scholarships ranging from \$200 to \$2000 are awarded each year. Recipients must be Hawai'i residents. Four-year renewable but must apply annually.

**Hilo High School Class of 1940 Scholarship:** One or more \$750 scholarships awarded annually to a graduating senior from Hilo High School.

**Ronald S. Jitchaku Memorial Scholarship:** One \$1,200 scholarship awarded to full-time students enrolled in the UH Hilo Liberal Studies/Administration of Justice Program. Recipients must be graduates of a high school in the State of Hawai'i. The number and amount of scholarships will be based on the availability of funds.

**Phyllis Kahaney Humanities Award:** \$300 awarded annually to assist students in the Humanities. Recipients must be enrolled for at least 6 credit hours, satisfactorily completed at least 9 credit hours within the past two years at UH Hilo with a minimum cumulative GPA of 2.0, have demonstrated financial need, be at least 27 years of age or above and be of good character.

**Williard D. Keim Memorial Scholarship:** \$500 or more awarded annually to Political Science majors with a cumulative GPA of 3.0 or above.

**Kenneth K. Keliipio Memorial Scholarship:** One \$1200 scholarship shall be awarded annually based on availability of funds to a full time student enrolled in the UH Hilo Liberal Studies/Administration of Justice Program. Recipient must be a graduate of a high school in the State of Hawai'i. Renewable, but must apply annually.

**Paul J. Kopecky Memorial Scholarship:** Minimum of \$500 awarded annually to students who are active in the area of student services either through student employment, activities, as a volunteer or in some other way.

**J.M. Long Foundation Scholarship:** \$500 awarded annually to students enrolled in health or business related programs. Recipients must be residents of Hawai'i.

**Constance E. Masutani Memorial Scholarship:** Scholarship of \$400 or more awarded annually to graduates of Big Island High Schools. Preference given to Hilo High School graduates.

**George M. Matsumura Memorial Scholarship:** Two \$200 scholarships awarded annually to part-time or full-time employees of KTA Super Stores who enroll or plan to enroll in the business field (with an emphasis in accounting) at the University of Hawai'i at Hilo or the University of Hawai'i at Manoa.

**Virginia Pearson Ransburg Delta Kappa Gamma Scholarship:** Awards in the amount of annual tuition costs are given annually to students from the Federated States of Micronesia, the Republic of Palau, Marshall Islands,

or the Commonwealth of the No. Marianas Islands. Preference given to female applicants majoring in education.

**Leon J. Rhodes Student Development Award:** \$1200 awarded in mid-May to recognize students at the end of their sophomore year who have become good citizens, self-determined, and developed successful human relationship as a result of their experiences at UH Hilo.

**Student Opportunity Fund:** Four scholarship awards (usually around \$2000 each) for students in music, drama and painting. Recipients must be a Hawai'i high school graduate, minimum 3.0 GPA and have financial need. Priority given to students of Asian-Pacific Island ancestry.

**Marie E. Schleichert Annual College of Agriculture Scholarship:** \$100 scholarships awarded annually to College of Agriculture students. Recipients must be native to Hawai'i and have a desire to work in forestry or some phase of agriculture or aquaculture, with an intent to save the land and seas in and around Hawai'i. (Horticulture is excluded.) Preference given to applicants of Hawaiian Ancestry or Native Americans.

**Travel Women's Hawai'i-Hilo Chapter Scholarship:** \$500 scholarship awarded annually to a second year student planning to pursue a career in the Travel Industry on the Island of Hawai'i. The recipient must be a resident of the Island of Hawai'i.

**UH Hilo Volunteer Service Award:** Two or more \$500 awards given annually to continuing students who have contributed outstanding volunteer, non-compensated service which significantly benefits the University and/or community. Minimum 2.5 cumulative GPA required.

**Dr. Francis F.C. Wong Memorial Scholarship:** Four \$750 scholarships awarded annually to Big Island high school graduates who have excelled as athletes.

**James S. Sr. & Kameko Yagi Memorial Scholarship:** Four \$250 scholarships awarded annually to graduates of Big Island high schools. Preference will be given to entering freshman.

**Michio Yoshimura Memorial Art Scholarship:** \$300 scholarship awarded annually to a graduate of a Big Island High School. Preference given to the graduating seniors from Waiakea and Hilo High Schools. Recipient must be admitted as an Art Major at UH Hilo. This award may be renewable but students must apply each year.

**The following six music scholarships are incorporated into a single application which may be obtained by contacting the Performing Arts Department or the UH Hilo Financial Aid Office:**

**Gloriana Adap Memorial Scholarship for Singers:** \$100 to \$200 scholarships awarded annually to students enrolled or planning to enroll in music studies. Recipients must maintain a 2.5 in music courses, 2.0 overall, and participate in all UH Hilo choral ensemble. Interview and audition required.

**Richard Adap Memorial Scholarship for Singers:** \$250 to \$500 scholarships awarded annually to students enrolled or planning to enroll in music studies. Recipients must maintain a GPA of 2.5 in music courses, 2.0 overall, and participate in all UH Hilo choral ensembles. Interview and audition required.

**Constance Carter Memorial Scholarship Fund:** An award(s) of an amount to be determined by the Music Scholarship Committee given to student(s) with outstanding abilities and talents in performing arts or music. Recipients must have a minimum cumulative GPA of 2.5 or above and must be active in community service.

**Thomas E. Cook Memorial Scholarship for Singers:** \$500 scholarship offered by the Church of the Holy Apostles in Hilo and awarded annually

to students engaged in vocal training in the UH Hilo Performing Arts Department.

**Paul Gouglides Memorial Grant for Pianists:** An award of an amount to be determined by the Music Scholarship Committee given to a serious piano student. Recipient must be a full-time student, maintain a GPA of 3.0 in music courses and 2.5 overall, participate in a UH Hilo music ensemble. Interview and audition required.

**Hawai'i Concert Society Scholarship:** An annual award of varying amount given by the Hawai'i concert Society to a deserving music student. Recipient must be a full-time student, maintain a cumulative GPA of 3.0 in music courses, 2.5 overall, participate in a UH Hilo music ensemble, and perform for the society at its annual meeting.

**Additional Music Scholarships are available through the Performing Arts Department. Interested students should contact Chairperson at (808) 974-7352 or (808) 974-7304.**

**Grancell Scholarship:** \$500 awarded annually to a superior music student. Recipient must be a full-time student, maintain a cumulative GPA of 2.5 in music courses, 2.0 overall, and participate in a UH Hilo music ensemble. Applications and information are available from the Performing Arts Department Chair or Department Scholarship Coordinator ([808] 974-7304 or [808]974-7352).

**For information on VA benefit programs, contact the nearest VA office.**

**Baccalaureate Nursing Degree (BSN) Upper Division Scholarships:**

**Hilo Medical Center Auxiliary Nursing Scholarship:** \$500 scholarships renewable each semester for up to two years to students in the BSN program. Cumulative GPA of 2.7 or above and volunteer service to community/university groups required.

**Kuakini Foundation Nursing Scholarship:** Two \$500 scholarships are given annually to students in the BSN program. Cumulative GPA of 3.0 or above and volunteer service to community/university groups required.

**Sigma Theta Tau Scholarship:** \$500 scholarships given each semester to students in the BSN program. Cumulative GPA of 3.3 or above required.

**American Hawai'i Cruises:** \$2000 scholarship grants—one for every public high school in Hawai'i—to recognize outstanding academic achievement and community service. All Hawai'i public high schools seniors ranking in the top 15% of their graduating class and who will attend any campus of the University of Hawai'i in Fall 1999 are eligible for consideration. Each recipient will be required to participate in two community service activities during the year as arranged and coordinated by the Service Learning Program of the university's Office of Student Services in association with American Hawai'i Cruises Community Relations Department. Applications may be obtained from Hawai'i High School Counselors.

**The following scholarships available only to UH Hilo students are provided by organizations in the Hilo area:**

**American Association of University Women (AAUW) Scholarship:** Scholarships ranging from \$150 to \$500 are awarded annually to female students enrolled in UH Hilo's College of Arts and Sciences. Students must be pursuing a baccalaureate degree or a post-baccalaureate degree/certificate and be at least a junior at the beginning of the academic year for which the scholarship is awarded. Application forms may be obtained from the UH Hilo Financial Aids Office or from Sherry Amundson, Chair, AAUW Scholarship Committee, 441 Haihai Street, Hilo, Hawai'i 96720.

**Hilo Women's Club Scholarship:** \$550 scholarships available to female graduates of Big Island high schools enrolled or planning to enroll at UH Hilo. Minimum GPA of 3.5 required. Application forms and information

may be obtained from Big Island school counselors or the UH Hilo Financial Aid Office.

**For the following scholarships, available in Hilo, students should contact the sponsoring organization directly for information and application forms:**

**Big Island Press Club's Robert Miller Scholarship:** Awarded annually to a Big Island student interested in the communications media. Applicants must have a desire for a career in the media. Applications available from Big Island Press Club, P. O. Box 1920, Hilo, Hawai'i 96720.

**The Delta Kappa Gamma Society:** International Beta Beta State Scholarships. \$300 scholarship are available to three students from Oahu and one each from Hawai'i, Maui, and Kauai. Recipients must be high academic achievers and committed to the field of education or a related field as a career. Application forms and information may be obtained from high school counselors, financial aid offices, or the Scholarship Chairperson for the respective Island Chapters of the Delta Kappa Gamma Society International Beta Beta State.

**Bert Nakaji Scholarship:** Awarded annually to a graduating senior from a Big Island high school. Applicants must have financial need and intend to major in the humanities. For further information and application forms, contact your high school counselor.

**Panaewa Hawaiian Home Lands Community Association Scholarship:** Two \$150 and two \$250 scholarships awarded annually to dependents of the Panaewa Hawaiian Home Lands Community Association (PHHLCA) members. The applicant's parents must have been a member of the PHHLCA for at least two years. Applications forms may be obtained from the UH Hilo-Financial Aid Office or by writing to PHHL Community Association, Scholarship Committee, 102 Paipai Street, Hilo, Hawai'i 96720.

**Professional Secretaries International (PSI) Kohala Coast Chapter Scholarship:** \$250 or more awarded annually to residents of the Big Island enrolled or planning to enroll in Business Administration, Secretarial Science, Office Administration or equivalent curriculum. Application forms may be obtained from the University of Hawai'i at Hilo, Financial Aid Office or by writing to: Gail Watson, President, Professional Secretaries International (PSI) Kohala Coast Chapter, P. O. Box 383598 Waikoloa, HI 96738, Phone (808) 880-3303.

**Zonta Club of Hilo Nursing Scholarship:** \$400 scholarships awarded annually to students with a GPA of 3.0 or better enrolled or planning to enroll in a Nursing Degree Program at UH Hilo or HawCC Application forms may be obtained from the UH Hilo Financial Aid Office or by writing to: Chairperson, Scholarship Committee, ZONTA Club of Hilo, P.O. Box 1915, Hilo, Hawai'i 96721-1915.

**Hawai'i Emergency Physicians Associated, Inc. Scholarship:** Four \$1000 scholarships awarded annually. Two for children of Hilo Medical Center Staff and two for students from the districts of North Hilo, South Hilo or Puna. Minimum 2.0 GPA required.

**Na Ho'okama & Kamehameha Scholarships:** Students of Hawaiian ancestry or part-Hawaiian ancestry are encouraged to apply for the Na Ho'okama A Pauahi Scholarships or the Kamehameha Schools Scholarship. Application forms and information may be obtained by writing to the Department of Financial Aid, the Kamehameha Schools, Kapalama Heights, Honolulu, Hawai'i 96817, or you may call direct to (808) 842-8216.

**Hawai'i Community Foundation Scholarships:** All students are encouraged to apply for the various scholarships administered by the Hawai'i Community Foundation. Applications and information may be obtained from the University of Hawai'i at Hilo, Financial Aid Office, or by writing to the Hawai'i Community Foundation, 900 Fort Street Mall, Suite 1300, Honolulu, Hawai'i 96813.

**Native Hawaiian Higher Education Program:** Funded by the U.S. Department of Education and administered by the 'Aha Punana Leo. The goal of this program is to support Native Hawaiians in pursuit of post-secondary education in Hawai'i and the Continental U.S. This scholarship will enable students to successfully complete their course of study and achieve fluency in the Hawaiian language, to be utilized in their chosen professions within the communities that have provided family based sustenance to the student's education process. In support of the aforementioned educational goal, students in receipt of this scholarship are required to study Hawaiian language. For more information contact the Hawaiian Leadership Development Program at 974-7413, or the Hawaiian Studies Program at 974-7475, or Kehau Tolentino at Hale Kāko'o Pūnana Leo-Kālā Hele Kulanui, 1744 Kinoole St., Hilo, Hawaii 96720.

**Hilo Orchid Society Scholarship:** A \$500 scholarship is awarded to a deserving College of Agriculture student majoring in a discipline related to the science, hybridization, or production of orchids or other semi-tropical flowering plants. Applicant must plan to live on the orchid Island with intent to work in the horticultural field and promote the flower industry. Student must have been Hawai'i resident for at least one year and be at least a sophomore, full-time student with a high GPA in previous year(s). Submit an application by August 1 to Hilo Orchid Society, P. O. Box 4293, Hilo, Hawai'i 96721.

**Big Island Association of Nurserymen (BIAN) Scholarship:** One \$1,000 scholarship (\$500 per semester) awarded annually to a full time student in Tropical Horticulture in the College of Agriculture. The scholarship is intended to foster academic growth in the field of Tropical Horticulture. Student must have at least a 2.5 GPA from the previous school. Preference given to graduates from high schools in the state of Hawai'i. Send application to: BIAN, P.O.Box 4365, Hilo, Hawai'i 96720. Application deadline: September 1.

**Big Island Sustainable Communities Association Scholarship:** \$1,000 scholarship awarded annually to assist upper-division Agriculture students at UH Hilo or HawCC who have demonstrated leadership qualities in school and in the community. Student must be a resident of Hawai'i and a full-time registered student with a minimum cumulative 3.0 GPA. Send applications to: Scholarship Committee, Big Island Sustainable Communities Association, P.O. Box 797, Kurtistown, Hawai'i 96760. Application deadline: May 1.

**Hawai'i Farm Bureau Federation Scholarship:** Eligibility requirements: HFBF members, their dependents, or any legal resident may apply. Preference may be given to HFBF members. Scholarship applicants must be currently enrolled or planning to enroll or re-enter in any college or university or any institution of higher learning in an agriculture or agriculture-related fields (ie: business, science, etc.)

**Hawai'i Island Landscape Association Scholarship:** A \$500 scholarship awarded annually to a student in their senior year at any high school on the Big Island, or currently enrolled or planning to enroll in any college or university, or any institution of higher learning in a program in horticulture, landscaping, or agriculture. Send applications to: Hawai'i Island Landscape Association, P.O. Box 1594, Kailua-Kona, Hawai'i 96745-1594. Application deadline: April 30.

**AmeriCorps National Service:** In exchange for a year of service, AmeriCorps members receive an education award of \$4,725 to help pay off student loans or help finance their education. During term of service, AmeriCorps members earn a living allowance and may qualify to defer their existing student loans. To receive AmeriCorps NCCC applications or more information about opportunities with AmeriCorps, please call the AmeriCorps hotline at 1-800-942-2677, ext (TDD 1-800-833-3722) or visit <http://www.cns.gov>.

**Applications for specific scholarships are available from the UH Hilo Financial Aid Office (unless otherwise indicated) during the fall and spring semesters for the succeeding academic year.**

**Application deadline dates generally range from February 1 to March 1.**

**Instructions, criteria for selection, and deadline dates are printed on the reverse side of each scholarship application.**

**Contact the Financial Aid Office by writing to the:**

**UNIVERSITY OF HAWAII AT HILO  
FINANCIAL AID OFFICE  
200 WEST KAWILI STREET  
HILO, HAWAII 96720-4091  
OR CALL (808) 974-7323**

**The office is located in the Student Services Building. Counter service hours are from 8:00 am to 4:30 p.m. Monday-Friday.**

## LOANS

**Federal Perkins Loans:** These are federal loans available to qualified students with exceptional financial need. Students may borrow up to \$4,000 annually for undergraduate education, and up to \$20,000 aggregate for the bachelor's degree. For first-year, first time undergraduate Federal Perkins Loan borrowers, the loan funds will not be released until 30 days after the first day of class attendance. Repayment of the loan at 5% per annum simple interest begins 9 months after a student graduates, leaves school or ceases to enroll at least half-time. Loans are to be repaid within a ten-year period.

**Subsidized Federal Stafford Loans:** These are guaranteed loans under the Federal Family Education Loan Program that are available from commercial lending institutions, such as banks and credit unions, to students enrolled at least half-time. Eligibility is based on demonstrated financial need. First year student may borrow up to \$2,625 per academic year; second year students may borrow up to \$3,500, and junior or senior students may borrow up to \$5,500. For first-year, first time undergraduate subsidized Federal Stafford loan borrowers, the loan funds will not be released until 30 days after the first day of class attendance.

The current internet rate during repayment is 8.19% to go through June 30, 2001. This rate is adjusted annually based on the 91-day Treasury Bills plus 2.3%. The cap is 8.25%.

The federal government pays (subsidizes) this interest on your behalf as long as you are enrolled at least half-time. The loan fees may not exceed 4% of the loan amount. These fees are deducted from each disbursement.

You enter repayment, and pay principal and interest 6 months after you cease to be enrolled at least half-time.

The repayment period generally lasts at least 5 years but no more than 10 years with a minimum monthly payment of \$50. If you qualify for postponement of payments during any deferment or forbearance periods, those periods will not be included in the 5- and 10-year repayment period.

**Unsubsidized Federal Stafford Loans:** These are guaranteed loans under the Federal Family Education Program for students who do not qualify in whole or in part, for subsidized Federal Stafford loans. Borrowers can receive subsidized and unsubsidized loans for the same loan period.

Refer to the subsidized Federal Stafford loan limits. If you borrow under both the subsidized and unsubsidized programs, the combined total cannot exceed the Federal Stafford Loan annual limits. For first-year, first time undergraduate unsubsidized Federal Stafford loan borrowers, the loan funds will not be released until 30 days after the first day of class attendance.

The current in-school interest rate is 7.59% through June 30, 2000, and is adjusted annually. Unlike the subsidized Federal Stafford Loan, the federal government does not pay interest on your behalf. You must pay or capitalize the interest that accrues on your unsubsidized loan during the time you are enrolled in school, during your grace period, and during any period of deferment or repayment. Capitalize means that accrued interest will be added to the principal balance of your loan.

Loan fees not to exceed 4% of the loan amount will be deducted from each disbursement.

Interest begins to accrue on the day the loan is disbursed. Repayment of principal begins 6 months after you cease to be enrolled at least half-time.

The repayment period generally lasts at least 5 years but no more than 10 years. Periods of deferment and forbearance are not included in the 5- and 10-year repayment period.

**Federal PLUS Loans:** Under the Federal Family Education Loan Program, the parents of dependent students may borrow student loans. Parents who borrow must commence repayment 60 days after loan funds are disbursed. The current interest rate is 8.99% through June 30, 2001.

**State Higher Education Loans:** State long-term loans available to qualified students who are bona fide Hawai'i residents. Students may borrow up to \$4,000 annually for undergraduate education and up to \$20,000 aggregate for the bachelor's degree. Repayment of the loan at 5% per annum simple interest begins 9 months after the student ceases to carry a half-time credit load. Maximum repayment period of 10 years.

**Short-Term Student Loan:** Short-term loans are available to meet emergency situations for direct or indirect educational costs. Loans are limited to \$100, repayable within 60 days.

## OTHER LISTINGS OF FINANCIAL AID

The UH Hilo Library and the Hawai'i public libraries have numerous publications on scholarships, grants and other sources of aid.

Scholarship and Financial Aid for Advanced Training Available to Residents of the State of Hawai'i, (Hawai'i State Department of Education, Bulletin Number 15): This publication listing over 500 local and national sources of financial assistance is available in high school guidance counselor offices, college financial aid offices, and in Hawai'i public libraries.

Annual Register of Grant Support (published by Academic Media, a division of Cordura Corporation): This publication is a comprehensive national listing of foundation and scholarship support and is available at the Office of Research Administration (University of Hawai'i at Manoa) and at public libraries.

Scholarship information is also posted on two bulletin boards located on the lanai of the Student Services Building throughout the year.

Students may also wish to explore the Internet for scholarship opportunities:

- 1) University of Hawai'i:  
\* <http://dbserver.its.hawaii.edu/cash/>
- 2) Others:
  - a) <http://www.finaid.org>.
  - b) <http://www.studentervices.com//fastweb/>.
  - c) <http://www.fastweb.com>.
  - d) [http://www.usagroup.com/scholarship\\_scholarship.htm](http://www.usagroup.com/scholarship_scholarship.htm)
  - e) [students.gov](http://students.gov)
  - f) <http://www.educaid.com>

Information about the Hope and Lifetime Learning tax credits can be obtained from the following sources:

- \* IRS Form 1040 Instructions
- \* IRS Publication 970, "Tax Benefits for Higher Education"
- \* IRS TeleTax, telephone number 1-800-829-4477
- \* U.S. Education Dept. Families Guide to Tax Cuts for Education
- \* World Wide Websites:
  - <http://www.irs.gov>
  - <http://www.ifap.ed.gov>
  - <http://www.hawaii.edu/StudentAffairs>

The University of Hawai'i at Hilo's academic programs, services and employment opportunities are open equally to all persons, regardless of sex, race, color, national or ethnic origin, or physical handicap.

The University's policies comply with all applicable laws and regulations regarding non-discrimination.

Inquiries regarding this policy may be directed to:

Dr. Rose Tseng  
Senior Vice President and Chancellor  
University of Hawai'i at Hilo  
200 W. Kawili Street  
Hilo, Hawai'i 96720-4091

Telephone: (808) 974-7444

## STUDENT EMPLOYMENT PROGRAMS

Federal (federal work study) and state (general) funds are provided for the employment of students under the Student Employment Program. To be eligible for the program all students must be classified with a declared major, must be registered at least half-time (6 credits) in a degree-granting program, and must be on good academic standing (carrying at least a 2.00 cumulative GPA).

Part-time on-campus employment for eligible students is designed to provide valuable work experience to augment a student's academic endeavors and to provide much needed financial assistance to offset educational expenses. The program also encourages students to seek positions related to their educational goals and encourages community service work.

Approximately 350 on-campus jobs are available during the academic year. Of these, about 150 are filled by the students with Federal Work Study awards. Students who have been awarded employment (federal work study) as part of their Financial Aid Award package (as determined by the Financial Aid Office via the financial aid application process) are given first priority for on-campus jobs. Students without an employment award may also seek positions that they qualify for, that are funded through other sources of employment funds. Work hours will not exceed 20 hours per week during the academic year. Hourly wages are based upon the type of work, required proficiency, and current federal and state minimum wage compensation laws.

Current job vacancies are posted on the On-Campus Employment Bulletin Board located on the Campus Center second floor lanai. The postings list job qualification and job description. Any additional information will be provided by the Student Employment Office once a student has registered and been deemed for eligible on-campus employment. All students interested in on-campus employment *must* register with the Student Employment Office. To register for the Student Employment Program, please come to the Career Center & Student Employment Office, located on the second floor of the Campus Center, Room 202A.

## REPAYMENTS

Students will be required to refund a specified amount of money to the respective financial aid accounts if they drop classes during the tuition refund period or if they drop below half-time or completely withdraw. A reduction of credit hours during the tuition refund period of each semester will result in awards being reduced on a pro-rata basis relative to the new credit hour load. Tuition refunds for students who have received only Federal Stafford loans are returned to the respective Federal Stafford loan lenders.

## International Students

The University of Hawai'i at Hilo is a global campus with students attending primarily from the Pacific Islands, Asia, and Europe. The International Student Advisor's Office facilitates the transition of international students to the U.S. academic environment by conducting workshops and specialized orientations. Numerous services are provided including passport and immigration assistance, cross-cultural programming,



and personal counseling. Additionally, the office assists students who attend UH Hilo through international agreements made with foreign institutions and hosts international visitors. The International Student Advisor works closely with the International Student Association and other cultural clubs to sponsor campus-wide activities such as United Nations Day and International Nights aimed at increasing cultural awareness and understanding. UH Hilo is committed to the rich contribution made to its campus by citizens of other countries.

For further information, please contact the International Student Advisor, Student Services Building, Room 203; (808) 974-7313 (phone and FAX); e-mail: rrobison@hawaii.edu.

## Environmental Internship Programs

In collaboration with the University of Hawai'i Sea Grant Extension Service, two summer environmental internship programs are offered for students who meet the qualifications for each program. These programs are part of an effort to build interest among students in considering environmental careers and to provide them the opportunity to apply information and skills learned in the classroom to real life natural resource management issues on their islands.

The Micronesia and American Samoa Student Internship Program (MASSIP) has been offered since 1994 through funding provided by the U.S. Department of Interior and other sources. The program offers students from the U.S. -affiliated Pacific Islands (the Federated States of Micronesia (FSM), the Republics of Palau and the Marshall Islands, Guam, the Commonwealth of the Northern Mariana Islands (CNMI), and American Samoa) the opportunity to return home for the summer to work with environmental agencies and organizations. Financial resources are available for travel expenses and small stipends are offered by the host agencies. Students earn academic credit the following Fall semester through working with faculty and staff.

The University of Hawai'i Hawaiian Internship Program (UH-HIP) began in 1997 and is a sister program of MASSIP. It is available to students of native Hawaiian ancestry, and offers students the opportunity to work with environmental groups and agencies in the state of Hawai'i for two months during the summer. Most internships provide full-time employment by the participating agency. Similar to MASSIP, students earn academic credit for the internship experience in the Fall semester.

For more information about these programs, contact Sharon Ziegler-Chong, UH Sea Grant Extension Service, (808) 974-7803.

## Exchange Program (National Student Exchange)

The University of Hawai'i at Hilo is a member of the National Student Exchange Program (NSE). Each year selected UH Hilo students attend one of the more than 170 colleges and universities in 48 states. Approximately 65 students come from other campuses across the country to contribute to the diverse population of our campus. Spending a semester or year on another campus allows one to explore other geographic areas with an eye toward future graduate work or career opportunities, and fosters a better understanding of differences in ideas and values throughout the United States. In addition, this exchange enables students to pay in-state resident tuition fees. To make the most of this opportunity, advanced planning and advising are important. For more information, contact the NSE Coordinator, OSA Counseling Office, (808) 974-7399.

## Study Abroad

Studying in another country offers a first-hand experience of other cultures and provides for the acquisition of valuable skills and expertise for an increasingly internationalized and interdependent world. The Study Abroad Advisor can assist in the selection of programs sponsored by UH Hilo as well as from programs sponsored by the University of Hawai'i system. In addition, UH Hilo students are eligible to participate in study abroad programs sponsored by participating campuses in the National Student Exchange Consortium. Information and advising are also avail-

able for other study abroad opportunities. Contact the Study Abroad Advisor, OSA Counseling Office, (808) 974-7399.

## Western Undergraduate Exchange (WUE)

The University of Hawai'i at Hilo participates in the Western Undergraduate Exchange (WUE), a program of the Western Interstate Commission for Higher Education and other western states. Through WUE, certain students who are not residents of Hawai'i may enroll at UH Hilo in designated programs, paying resident tuition plus 50 percent of that amount (plus other fees that are paid by all students). WUE students do not pay the higher charge for nonresident tuition.

Students under WUE must maintain their permanent domicile in their home state. Students who choose to change their residency to Hawai'i must comply with the University's residency requirements. Establishing Hawai'i residency cannot be obtained as a WUE student, therefore, students must change their residency to non-resident for 12 months prior to qualifying as a Hawai'i resident for tuition purposes. Additionally, students must meet the residency regulations for tuition purposes as stated in this catalog.

Enrollment at UH Hilo through the WUE program is limited to incoming students only and restrictions may apply. Please contact the Admissions Office for more information.

Because UH Hilo participates, Hawai'i residents may enroll under the same terms in designated institutions and programs in other participating states.

Information about WUE programs available at the Hilo Campus may be obtained from the Admissions Office. Hawai'i residents may obtain information about WUE programs in other states from the WICHE Certifying Officer for Hawai'i, University of Hawai'i at Manoa, 2530 Dole Street, Room C-200, Honolulu, Hawai'i 96822, (808) 956-6625; or from the WICHE Student Exchange Program, P.O. Drawer P, Boulder, Colorado 80301-9752, (303) 497-0210.

## Health Services and Women's Health Clinic

The Student Health Service (SHS) is managed by a nurse practitioner and provides first aid, health education, advice on caring for illnesses, counseling on health related problems, tuberculin tests, and routine immunizations. Any student in need of medical services will be referred to a physician in the Hilo area. In the event of an accident or emergency, Hilo Medical Center, located a few miles from campus, provides 24-hour emergency care.

The Women's Health Clinic, located within the SHS, offers pelvic exams, diagnosis and treatment for sexually transmitted diseases, contraceptive methods, and pregnancy testing and counseling. Services are at low or no cost to income eligible students.

The SHS is located in the Campus Center building, Room 212, and is open Monday through Friday (except holidays), 8 a.m. to 4:30 p.m., (808) 974-7636.

## Student Health Insurance

Health insurance is highly recommended for all students. The University of Hawai'i Medical Plan is designed for students and is generally less expensive than most other health insurance plans. Applications may be picked up from the Health Services Office (Campus Center 212), or mailed to you by calling (808) 974-7636. INTERNATIONAL STUDENTS ON NON-IMMIGRANT VISAS MUST PROVIDE PROOF OF ADEQUATE ACCIDENT AND HEALTH INSURANCE, CARRY SUCH INSURANCE EACH SEMESTER, AND PRESENT PROOF WHEN PICKING UP THEIR REGISTRATION MATERIALS. A SPECIAL RIDER TO COVER ADDITIONAL ACCIDENTS AND ILLNESS, REPATRIATION AND MEDICAL EVACUATION BACK TO THE STUDENTS' HOME COUNTRY CAN BE PURCHASED FOR A LOW FEE.

## Medical Clearance

All newly enrolled students must send in a completed Health History Form (mailed from the Admissions Office with the student's acceptance letter), results of a tuberculin skin test (PPD) or chest x-ray performed not more than 12 months prior to enrollment date, and if born after 1956, proof of immunity to measles (rubeola). TB tests and chest x-rays performed in foreign countries are not acceptable for clearance.

## Veterans

Certain instructional units at the University of Hawai'i at Hilo are approved for VA educational benefits. Eligible students may receive financial assistance as provided by the Veteran's Readjustment Benefit Act and the War Orphans Assistance Act.

Veterans who are registered for the first time under the GI Bill must present Form DD 214 (formal discharge papers) to the Records Office. Dependents of disabled veterans and survivors of veterans whose cause of death was service-related, who register for the first time under any provision of the Federal Veterans' Bill, must complete and present VA Form 22-5490 to the Records Office, Student Services Building.

Veterans who are continuing students must contact the Records Office after completing each semester's registration in order to continue receiving benefits.

## Housing

Housing accommodations to meet most needs of the single student, married student, and disabled students are available either on-campus or in privately owned units in the Hilo community. On-campus residence halls currently house 632 students in residence halls and apartment style arrangements. Off-campus housing includes privately owned apartments, homes, or rooms in the Hilo community.

Due to the limited number of housing accommodations, students and potential students are encouraged to apply early for on-campus housing.

The Housing Office is located in room H-109 of the Multi-Purpose Building, Hale 'Ikena Residence Hall; (808) 974-7522 (Phone); (808) 974-7652 (FAX); email: uhhhouse@hawaii.edu.

## On-Campus Housing

In its residence hall operation, the Student Housing Program is committed to providing an atmosphere where personal growth can occur in an environment that compliments the educational objectives of the University. Residents, student staff, and professional staff carry out this commitment by adhering to concepts of responsible freedom which encourage active participation in the residence hall community. Numerous opportunities for self and group development are available to the residents through participation in the areas of educational, recreational and social programming, community government, and the development of resident hall policies and procedures.

## Residence Halls

There are four coeducational residence halls on the UH Hilo campus, two traditional, one suite, and one apartment style hall. Rooms are furnished with twin-size beds, chest of drawers, chairs, bookshelves and desks. All other furnishings, including linens, must be supplied by the residents. All residence halls have recreation lounges, television room, study rooms (except Hale 'Ikena), and laundry facilities.

Two traditional-style halls, Hale Kauanoe and Hale Kanilehua are located on the Main Campus. The majority of rooms in these halls are designed for two students (double accommodations). Residents in the traditional-style halls and suite must participate in a board program with meals served at the Residence Hall Dining Room. A variety of meal plan options are offered.

Hale Kauanoe is alcohol-free and substance-free. All residents voluntarily agree not to possess or to consume alcoholic beverages anywhere within Hale Kauanoe's bedrooms, hallways or common areas. Hale Kauanoe observes regular UH Hilo study/quiet hours with extra care.

Hale Kehau, a 236-bed, suite-style coed hall, is designated alcohol free. Each two rooms share a bathroom that connects both rooms. All rooms are fully carpeted. Six units are designed to meet the needs of students with disabilities.

Hale 'Ikena, an apartment-style facility, provides accommodations for 196 students. Students applying to Hale 'Ikena must be 21 years of age or have completed 24 college credits. The majority of apartments in this facility are two-bedroom units with accommodations for four students in each unit. There is a limited number of one-bedroom apartment units accommodating two students. All apartment units are fully furnished with private bathroom, living room, and kitchen. Residents must provide their own linens, cooking and eating utensils. Unlike the residence halls which close during the Christmas interim and Spring recess periods, Hale 'Ikena remains open throughout the entire academic year. Students requiring housing during the periods when the University is not in session are encouraged to apply to this facility.

Married students may reside in student housing provided that at least one spouse per married couple is a full-time student who qualifies under the geographical area provisions of the Board's applicable priority system, the other spouse being a full-time or part-time student.

## Students with Disabilities

Two apartments at Hale 'Ikena and six units at Hale Kehau have been designed to meet the needs of students with disabilities who are capable of living independently. Applicants for these accommodations should indicate on their application the nature of their need. Students must apply by regular deadlines.

## RATES

### I. ROOM RATES\* (Per Person/Per Semester)

A. Dormitory-Style Residence Halls		
Double room		\$725.00
Single room		\$1,088.00
B. Apartment-Style Residence Hall		
Two-bedroom unit		\$1,073.00
One-bedroom unit		\$1,390.00
C. Suite Style		\$917.00

### II. BOARD RATES\* (Fall 2000)

Plan A:	195 Block plus \$75.00 pts	\$1,306.70
Plan B:	140 Block plus \$145.00 pts	\$1,122.20
Plan C:	120 Block plus \$190.00 pts	\$1,057.60
Plan D:	Any 19 meals per week:	\$1,207.50
Plan E:	Any 14 meals per week:	\$1,034.65
Plan F:	Any 10 meals per week:	\$994.20

\*All rates subject to change with 30 days' notice.

## Application Procedures

An application for on-campus housing may be requested along with admissions materials or directly from the Student Housing Office of the University of Hawai'i at Hilo. Applications for on-campus housing may be submitted regardless of admissions status. Admissions to the University does not assure students of on-campus housing. Applications for the upcoming academic year are available in the early spring and should be submitted as early as possible. Residents of the State of Hawai'i who apply by April 15 and live in rural areas of the island of Hawai'i or neighbor islands are given the highest priority for on-campus housing. Receipt of a housing application and application fee by the Housing Office does not guarantee on-campus housing.

## Off-Campus Housing

The Housing Office provides assistance in finding off-campus housing by listing privately owned homes, apartments, and rooms in the Hilo

area. Contacts and arrangements with the landlord are made by the student. Materials on how to rent, find a roommate, tenant rights, and student "survival" outside of the classroom are also available at the Housing Office.

Since there is a rush for apartments and other private rental units immediately preceding the beginning of each semester, students are encouraged to come to campus to search for housing as soon as possible. It is recommended that students make all the necessary living arrangements personally the owner or manager rather than by mail. Since a contract is a legal agreement and the terms of a contract are binding, there should be a clear understanding by both parties in writing of all terms of the contract.

## Family Student Apartments

Adjacent to the main campus is Hale Kawili Apartments, a privately owned apartment complex which provides housing accommodations for married students, families, and single students. Brochures and further information may be obtained by contacting the Manager, Hale Kawili Apartments, 430 West Kawili Street, Hilo, HI 96720; (808) 959-9518.

## Tenant Concerns

Any student who has questions or problems regarding housing should attempt to resolve concerns with the manager/landlord of the unit. The Housing Coordinator should be contacted if the concerns or problems cannot be answered adequately or resolved satisfactorily by the manager/landlord.

## Educational Opportunity Programs

### Hawaiian Leadership Development Program

The Hawaiian Leadership Development Program (HLDP) recruits talented Native Hawaiians with proven academic ability who are recognized for their potential leadership abilities and facilitates their academic and leadership development. HLDP provides students with the means to develop their leadership skills and understand their cultural background with the goal of increasing the number of Hawaiian leaders in professional fields and the general community. Participants in the program enroll in regular and selected college-level courses (i.e., University 101, Hawaiian Leadership and Hawaiian Studies courses). In addition, out-of-class activities include field trips, community service projects, workshop presentations, and cultural activities. Internships are available in selected areas on and off-campus.

For more information, please contact the HLDP Office, Student Services Building, Room 206; (808) 974-7413.

### Health Careers Opportunity Program (HCOP)

Health Careers Opportunity Program is designed to provide educational opportunities for individuals for disadvantaged backgrounds who have an interest and the potential to pursue careers in the medical and health professions. The program offers a broad range of academic and personal support service, enrichment activities and information about health and allied health programs and opportunities including academic advising, tutoring, career exploration, personal counseling, financial aid information, study skills, enhancement and preparation and application for college and/or health professions programs. A six-week summer residential program provides academic and experiential enrichment in the medical and health fields. For more information, please contact the HCOP Office, Student Services Building, Room 206. (808) 974-7413 or (808) 933-0897.

## Minority Access and Achievement Program

The Minority Access and Achievement Program Office was established as the result of an initiative by the state legislature to "improve access and success of students from underrepresented ethnic groups at the university and in the professions in Hawaii." The students most underrepresented in higher education in this state are Hawaiian, Filipino, Samoan and other Pacific Islanders, and Indo-Chinese.

The goals of this office are to identify the needs of the target population and provide support to meet those needs. The Peer Assistant Linkages and Support (PALS) program was established in 1990. PALS links freshmen students with upper division students who serve as peer assistants and mentors, providing academic and personal support.

Participants receive assistance with peer advising and counseling, registration information, applying for financial aid, career development, study skills, and workshops. Cultural enrichment activities and social events are planned throughout the year.

More information is available at the Minority Access & Achievement Program Office, located in the Student Services Building, Room 202; (808) 974-7451.

## Native Hawaiian Center of Excellence

Through funds provided by the U.S. Department of Health and Human Services to the John A. Burns School of Medicine (JABSOM), the Native Hawaiian Center of Excellence (NHCOE) was established in 1991 to provide coordinated and comprehensive activities to increase the number of native Hawaiians in medicine.

Through partnership with the Office of Hawaiian Affairs (OHA), the Keala Lapa'au Program was established. The program, modeled after the national School-To-Careers initiative, works with UH Hilo and community programs to expose native Hawaiian children from primary to secondary grade levels to different medical and health professions. Outreach is conducted in schools on the Big Island, Maui, Moloka'i, Lana'i and Kaua'i.

The program works with high school and college students to expose, inspire and guide them toward professions in the health and medical fields. Activities include information on a wide-range of health fields, study skills, including test-taking workshops, financial-aid workshops, career-shadowing and community service projects.

The program also advises the Health Professions Student Association (HPSA) in the organizing and planning health/medical related activities to better prepare undergraduate students for completion of their baccalaureate degrees and/or acceptance into health or medical profession programs.

For more information, please contact the NHCOE office, Campus Center Room 309; (808) 933-0732.

## Student Support Services Program

Student Support Services is a federally funded program designed to foster the academic achievement and success of University students. Students from the U.S. or the U.S.-affiliated Pacific Islands who are first generation college students (i.e., neither parent has earned a bachelor's degree from college), or who are considered low-income, or who have a documented disability, are eligible for the program.

The program provides comprehensive support services such as academic advising, assistance with obtaining financial aid and scholarships, career guidance, and tutoring. The program also assists students in making the transition into college and monitors students' academic progress. Peer tutors provide individual and group tutoring. Students in the program also have the opportunity to participate in cultural and academic enrichment activities, as well as in workshops focused on personal and career development and learning skills.

Requests by students with documented disabilities for reasonable accommodations are arranged through the program. These may include classroom and testing accommodations, liaison with faculty, and auxiliary aids and services to promote equal access. Requests must be made in a timely manner.

Information and applications may be obtained from the Student Support Services Office, Student Services Building, Room 211; (808) 974-7616.

## Upward Bound

Upward Bound is a federally funded program which has been a part of UH Hilo since 1980. The program is designed to assist disadvantaged high school students on the island of Hawai'i with developing the necessary skills, motivation, and attitude to pursue a post-secondary education.

High school students who are considered economically disadvantaged and/or potential first-generation college students qualify for the program. Admission into the program is based on college potential. The program provides classes and tutoring in basic skills, academic counseling, and career exploration opportunities. Full-time college students are hired as tutors and counselors to assist in providing these services during the school year as well as during the six-week summer residential program on campus.

Information and applications for the program may be obtained from high school counselors, or the Upward Bound Office, Hale Aloha Building; (808) 974-7337.

## Upward Bound Math/Science Center

As part of the Upward Bound Program, a Math and Science Center was established in Fall 1992 to serve high school students from Hawai'i, Arizona, Nevada, California, Guam, American Samoa, the Federated States of Micronesia, the Commonwealth of the Northern Marianas, and the Republics of Belau and the Marshall Islands.

The purpose of the Center is to increase the academic skills and motivation of traditionally underrepresented groups to successfully pursue postsecondary degrees in mathematics, science and technology.

Referrals to the Center are made by high school teachers and counselors in the target area. University of Hawai'i at Hilo full-time students, especially those from the target areas, are encouraged to apply as tutors and counselors for the project.

For more information, please call the Upward Bound Office at (808) 974-7337.

## Educational Rights and Privacy Act

(New FERPA statement as of 12/11/97)

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. They are:

- (1) The right to inspect and review the student's education records within 45 days of the day the University receives a request for access. Students should submit to the registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- (2) The right to request the amendment of the student's education records that the student believes are inaccurate or misleading. Students may ask the University to amend a record that they believe is inaccurate or misleading. They should write the University official responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading.  
If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

- (3) The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the university in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.

- (4) The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Avenue, SW  
Washington, DC 20202-4605

- (5) Students are advised that institutional policy and procedures required under FERPA have been published as Administrative Procedure A7.022 Procedures Relating to Protection of the Educational Rights and Privacy of Students. Copies of Administrative Procedure A7.022 may be obtained from the Office of the Vice Chancellor for Student Affairs (Student Services Bldg. Room 209, phone (808) 974-7335), Dean of the College of Arts and Sciences (College Hall 1, phone (808) 974-7300), or the Dean of the College of Agriculture, Forestry & Natural Resource Management (College of Agriculture Bldg., phone (808) 974-7393), Director of the College of Hawaiian Language (EKH 235, phone (808) 974-7342), or by accessing [www.svpa.hawaii.edu/svpa/apm/a700/a7022a.pdf](http://www.svpa.hawaii.edu/svpa/apm/a700/a7022a.pdf).

- (6) Directory Information

Students are advised that certain personally identifiable information is considered by the University to be Directory Information and, in response to public inquiry, may be disclosed without prior consent of the student unless the student otherwise so informs the University not to disclose such information.

- (a) Name of student
- (b) Local address and zip code
- (c) Local telephone number
- (d) Major field of study
- (e) Educational level
- (f) Fact of participation in officially recognized activities and sports
- (g) Weight and height of members of athletic teams
- (h) Dates of attendance
- (i) Most recent educational institution attended
- (j) Degrees and awards received
- (k) Campus issued e-mail address
- (l) Photographs

A student has the right to request that all of the above items not be designated Directory Information with respect to that student. Should a student wish to exercise this right, he or she must in person and in writing, not earlier than the first day of instruction nor later than fourteen calendar days from the first day of instruction for the academic term or semester, or the fourth day of a summer session, inform each Campus Registrar of each campus he or she is attending which of the above items are not to be disclosed without the prior consent of that student. Report to the Records Office at the Student Services Bldg. Room 101 to make this request.

- (7) A parent or spouse of a student is advised that information contained in educational records, except as may be determined to be Directory Information, will not be disclosed to him/her without the prior written consent of the son, daughter, or spouse.

## Student Conduct Regulations

**Student Conduct Code:** The University of Hawai'i at Hilo has a Student Conduct Code which defines expected conduct for students and specifies those acts subject to University sanctions. Students should familiarize themselves with the Student Conduct Code, since upon enrollment at UH Hilo, the student has placed himself or herself under the policies and regulations of the University and its duly constituted bodies. The disciplinary authority is exercised through the Student Conduct Committee. The Committee has developed procedures for hearing allegations of misconduct.

Copies of the Student Conduct Code are available at the office of the Vice Chancellor for Student Affairs (Student Services Building, Room 209; (808) 974-7335).

**Academic Dishonesty:** Academic dishonesty cannot be condoned by the University. Such dishonesty includes cheating and plagiarism (examples of which are given below) which violate the Student Conduct Code and may result in expulsion from the University.

**Cheating** includes, but is not limited to, giving unauthorized help during an examination; obtaining unauthorized information about an examination before it is administered; using inappropriate sources of information during an examination; altering the record of any grades; altering answers after an examination has been submitted; falsifying any official university record; and misrepresenting the facts in order to obtain exemptions from course requirements.

**Plagiarism** includes, but is not limited to, submitting, to satisfy an academic requirement, any document that has been copied in whole or part from another individual's work without identifying that individual; neglecting to identify as a quotation a documented idea that has not been assimilated into the student's language and style, or paraphrasing a passage so closely that the reader is misled as to the source; submitting the same written or oral material in more than one course without obtaining authorization from the instructors involved; or drylabbing, which includes (a) obtaining and using experimental data from other students without the express consent of the instructor, (b) utilizing experimental data and laboratory write-ups from other sections of the course or from previous terms during which the course was conducted, and (c) fabricating data to fit the expected results.



*photo courtesy of UH Hilo Graphic Services*

**Financial Obligations to the University:** Students who have not satisfactorily adjusted their financial obligations (tuition and fees, traffic violations, library fines, locker fees, laboratory breakage charges, transcript fees, loans past due, rental payments, etc.) may be denied transcripts, diplomas, and registration.

A copy of the "Rules and Regulations Governing Delinquent Financial Obligations Owed the University of Hawai'i," promulgated by the Board of Regents, is on file in the office of the Vice Chancellor of Student Affairs.

**Alcohol and Other Drugs:** Consumption of alcoholic beverages is only permitted in UH Hilo student residence hall rooms and student apartments by students 21 years of age or older, with the exception of Hale Kauanoe which is designated alcohol-free. Consumption of alcoholic beverages is forbidden in all public and common areas of the residence halls. All other service or consumption of alcoholic beverages on University property requires a special permit by the Vice Chancellor for Student Affairs or Vice Chancellor for Administrative Affairs.

Expressly prohibited is the manufacture, use, sale, purchase, distribution, or possession of dangerous drugs and narcotics as those terms are used in state and federal law at University sponsored or approved events or on University property. This includes marijuana, cocaine, heroine, morphine, LSD and other hallucinogens, as well as barbiturates and amphetamines. Students who violate state law and/or University policies are subject to campus disciplinary action as provided for in the UH Hilo Student Conduct Code. The University fully cooperates with law enforcement agencies responsible for enforcement of laws relating to use of illegal drugs or alcohol. Complete copies of the UH Hilo Alcohol and Drug Policy are available in the office of the Vice Chancellor of Student Affairs and Office of the Chancellor.

**Lethal Weapons:** Firearms, spear guns, bows and arrows, and other potentially lethal weapons are prohibited in residence halls and all areas of campus.

## Residency Regulations for Tuition Purposes

Students who do not qualify on the first day of instruction as bona fide residents of the State of Hawai'i, according to the University of Hawai'i rules and regulations in effect at the time they register, must pay the nonresident tuition. An official determination of residence status will be made at the time of application. Applicants may be required to provide documentation to verify residency status. Once classified as a nonresident, a student continues to be so classified during his/her term at the college until he/she can present satisfactory evidence to the residency officer that proves otherwise.

Some of the more pertinent University residency regulations follow. For additional information or interpretation, contact the Residency Officer in the Admissions Office.

**Definition of Hawai'i Residency:** A student is deemed a resident of the State of Hawai'i for tuition purposes if the student (19 or older) or the student (under 19) and his/her parents or legal guardian have:

1. Demonstrated intent to reside permanently in Hawai'i (see below for indicia);
2. Been physically present in Hawai'i for the 12 consecutive months prior to the first day of instruction, and subsequent to the demonstration of intent to make Hawai'i his/her legal residency; and
3. The student, whether adult or minor, has not been claimed as a dependent for tax purposes for at least 12 consecutive months prior to the first day of instruction by his/her parents or legal guardians who are not legal residents of Hawai'i.

To change residency status to in-state, a student must meet the requirements listed above and:

- a. Has not enrolled in more than five credit hours per semester during the 12 consecutive months;
- b. Has not lived on campus during the 12 consecutive months;
- c. Has demonstrated an intent to make Hawai'i a permanent residence/domicile.



*photo courtesy of UH Hilo Graphic Services*

**To demonstrate the intent to make Hawai'i the legal residence, the following indicia apply:**

1. Voting/registering to vote in the State of Hawai'i.
2. Filing Hawai'i State Resident Personal Income Tax Return.
3. Other indicia such as permanent employment and ownership or the continuous leasing of a dwelling in Hawai'i may apply, but no single act is sufficient to establish residency in the State of Hawai'i.

**Other legal factors involved in making a residency determination include:**

1. The age of majority is 18 years. However, a person between the ages of 18 and 19, unless emancipated, cannot claim residency solely on the basis of himself/herself because he/she does not have the minimum 12 months residency, which commences on his/her 18th birthday. Therefore, the applicant must claim a portion of the required 12 months on the basis of his/her parent or legal guardian.
2. The twelve months of continuous residence in Hawai'i shall begin on the date upon which the first overt action (see indicia above) is taken to make Hawai'i the permanent residence. While residence will be lost if it is interrupted during the twelve months immediately preceding the first day of instruction, resident status derived from two or more successive sources may be tacked together to compute the twelve-month period.
3. Residency in Hawai'i and residency in another place cannot be held simultaneously.
4. Presence in Hawai'i primarily to attend an institution of higher learning does not create resident status. For example, being enrolled half-time or more, appear to be receiving significant financial support from family members who reside outside of Hawai'i,

are absent from the state for more than 30 days per year during school vacation periods, or receive student financial assistance based on residency in another state or jurisdiction.

5. The residency of unmarried students who are minors follows that of the parents or of the legal guardian. Marriage emancipates a minor.
6. The residency of a married person may follow that of the spouse.
7. Resident status, once acquired, will be lost by future voluntary action of the resident inconsistent with such status. However, Hawai'i residency will not be lost solely because of absence from the State while a member of the United States Armed Forces, while engaged in navigation, or while a student at any institution of learning.

**Statutory Exemptions: Nonresidents may be allowed to pay resident tuition if they qualify as one of the following:**

1. United States military personnel and their authorized dependents (as defined by the Armed Services) during the period such personnel are stationed in Hawai'i on active duty.
2. Persons who are legal residents of any Pacific island or Asian district, commonwealth, territory, or insular jurisdiction, state, or nation which provides no public institution of higher learning.
3. Certain employees of the University of Hawai'i and their spouses and legal dependents as defined under Internal Revenue Service rules.
4. Native Hawaiians who submit documents verifying their Hawaiian ancestry. Examples of acceptable documents include:
  - a. Official birth certificate indicating Hawaiian ancestry.
  - b. Official birth certificates of parents, grandparents, or great grandparents who are related by "blood."
  - c. Students who attended Kamehameha Schools.

**Misrepresentation:** A student or prospective student who provides incorrect information on any form or document intended for use in determination of resident status for tuition purposes will be subject to the requirements and/or disciplinary measures provided for in the "Rules and Regulations Governing Residency Status" available in the Admissions Office.

**Appeal Process:** Residency decisions may be appealed by contacting the residency officer in the Admissions Office for information on how to initiate an appeal before the Committee on Resident Status. Appeals must be filed with the residency officer on or before the thirtieth day following the mailing (or personal delivery, as the case may be) of written notification of non-resident determination or on or before ten days after the residence determination date, whichever is later. Resident tuition may be paid when an appeal is pending.

# ACADEMIC REGULATIONS

The regulations which follow apply to the College of Agriculture, Forestry & Natural Resource Management, the College of Arts and Sciences, and Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language unless otherwise indicated. In addition, each college has its own regulations which may be found in separate sections of this catalog.

## Admission Requirements

### Admission of Undergraduates

Application and admission information may be obtained from high school counselors in Hawai'i or from the Admissions Office, Student Services Building, or by writing to the Admissions Office, 200 W. Kawili Street, Hilo, HI 96720-4091. The University of Hawai'i system application form is used by all campuses in the UH system. Applications and all supporting documents must be received by July 1 for fall semester admission and December 1 for spring semester admission. Complete applications include \$25 application fee, official transcripts of all high school, college, university, business and other post-secondary schools attended, sent directly from each institution involved, and all other credentials noted in the system application. The \$25 application fee is non-refundable and required each time the student applies.

All applications and fees are valid for a single semester only. Acceptance *does not* imply that on-campus housing and/or financial aid are available. While the University will make every effort to assist, students must arrange for their own financial aid and housing by directly contacting the Office of Financial Aid and/or the Office of Student Housing, 200 W. Kawili Street, Hilo, HI 96720-4091.

**Note:** Prospective students should exercise care when obtaining information regarding admission, housing, or financial aid status. It is wise to request verification of important information, including the name of the information provider.

### Omitted or Fraudulent Information

Candidates for admission are required to specify on the application form all current and previous enrollment in any post-secondary institution. Any candidate for admission who fails to inform the University of such enrollment, or who submits or has submitted on his/her behalf any required information or document which is fraudulent, or which has been altered without proper authorization, may be denied admission to the University of Hawai'i at Hilo. If the omissions and/or alterations are discovered after the student is enrolled, enrollment may be cancelled and the student may be referred to the Student Conduct Committee for possible disciplinary sanctions.

### Admission Procedures

Prospective students should do the following:

1. File an official application for admissions (see previous section on Admission of Undergraduates) and submit the \$25 application fee by July 1 for fall semester and December 1 for spring semester.
2. If you are interested in receiving financial assistance, please request a financial aid application and file by March 1 to the Financial Aid Office, 200 W. Kawili Street, Hilo, HI 96720-4091; (808) 974-7324. (See separate section on Financial Aid program details under the Student Services heading of this catalog.)
3. In order to receive on-campus housing assignments, request and file by April 1 an official application for on-campus housing with the office of Student Housing, 200 W. Kawili Street, Hilo, HI 96720-4091; (808) 974-7522/974-7535. **Acceptance to the University does not guarantee on-campus housing.**

## The Admissions Ziplist

Check off the following as it pertains to you and you'll be well on your way to zipping through the admissions process!

### Submit now:

- Application Form by July 1 (Fall) or December 15 (Spring)
- \$25.00 Application Fee
- Housing Application by April 1 (Fall) or October 15 (Spring)
- Free Application for Federal Student Aid (FAFSA) and other supplemental documents by March 1 (Fall) or July 1 (Spring)
- Writing Placement Exam Sign-Up Form (upon acceptance to UH Hilo)

### AND:

#### HIGH SCHOOL SENIORS:

- Have official high school transcripts sent directly from your school to the Admissions Office
- Official SAT/ACT scores

#### TRANSFER STUDENTS:

- Have all college transcripts from previously attended institutions sent directly to the Admissions Office
- Have high school transcripts and SAT/ACT scores sent directly to the Admissions Office if below 24 semester credit hours completed.

#### G.E.D. APPLICANTS:

- Have official G.E.D. scores sent directly from the testing agency
- Have official SAT or ACT scores sent directly from the testing agency

#### INTERNATIONAL APPLICANTS:

- Application Form postmarked by June 1 (Fall) or November 1 (Spring)
- Foreign Student Supplement
- Financial Support Form
- Have official secondary or college transcripts, and/or qualifying exams sent directly from your school and/or testing agency to the Admissions Office
- All documents not in English must be accompanied by a certified English translation
- Official TOEFL scores

### Math Placement

UH Hilo offers a wide range of math courses for entering students. Placement tests are recommended to enroll in a math course. Results are used for advising purposes, not as entry requirements to courses. Information about taking the exam is sent to entering students each semester. Students with concerns about the appropriate math course will have an opportunity to discuss them with an advisor or a representative from the Math Department during the Week of Welcome.



### Writing Placement

All entering freshmen and continuing or transfer students without English 100 or the equivalent must take the UH Hilo Writing Placement Examination. Performance in this examination will determine placement in the appropriate writing course. Registration forms for the examination are available from the UH Hilo Admissions Office or from the CAS Humanities Division Office once admitted to the university.

### Tuition Deposit

Newly accepted students will be asked to submit a \$60 tuition deposit if they intend on enrolling with the University of Hawai'i at Hilo. The deposit is non-refundable, cannot be transferred to another campus and applied only for the term the student was accepted. Payment must be made by May 1 for fall and December 1 for spring. Students who are awaiting financial aid or are experiencing financial difficulty should contact the Admissions Office in writing to secure their enrollment for the following term.

### New Student Orientation

Students enrolling at UH Hilo for the first time are provided with an extensive program of academic and social activities designed to facilitate their adjustment to the University and to the Hilo community. A wide range of orientation activities and services help students to become more knowledgeable about their campus, become familiar with the diverse opportunities available to get involved in campus life and to become a member of our campus community.

During orientation, academic advisors assist new students with course selection and registration. After new students enroll, they are assigned to a specific academic advisor, who provides continued support and guidance.

New Student Orientation is offered during the Fall and Spring semesters. In addition, for students entering in the Fall semester, UH Hilo conducts early registration and academic advising sessions. These day-long sessions are held throughout the summer on the Hilo campus. During these sessions, students learn about degree programs and requirements as well as receive assistance with selecting and registering for courses. Students attending these day sessions are also invited to participate fully in our New Student Orientation program as well.

Students enrolling for the first time at UH Hilo are strongly encouraged to participate in new student orientation. During orientation, new students will be able to build a solid foundation to ensure a successful collegiate experience and to make the essential support connections to fellow students, faculty and staff.

For more information, contact the Campus Center Student Life Office, (808) 974-7381, or [stulife@hawaii.edu](mailto:stulife@hawaii.edu).

### Admission of Hawai'i Residents As Freshmen

Residents of the State of Hawai'i applying for admission directly from high school as freshmen are advised to submit scores of the Scholastic Aptitude Test (SAT) or the American College Test (ACT), high school transcripts or the General Education Development high school equivalency records and recommendations from school officials. A student should achieve a 2.5 (on a 4.0 scale) Grade Point Average or better in college preparatory high school courses and a 900 combined SAT score or a 19 composite ACT score.

A sliding scale is used by the Admissions Office with the above mentioned GPA and test scores as the baseline. Students that do not meet the stated GPA and test score requirement may be considered for admission based on a higher GPA or test score.

Candidates for fall admission should take the SAT or ACT by December of the senior year in high school. Candidates for spring admission should take the test before or during May. For information on these tests, consult a high school counselor or write to: (SAT) College Entrance Examination Board, Box 592, Princeton, New Jersey 08540, USA; or (ACT) American College Testing Program, P.O. Box 414, Iowa City, Iowa 52243, USA.

All prospective students must have completed at least 22 units of high school work (grades 9-12) of which at least 17 are college preparatory. These include: four (4) units in English; three (3) units of math, including geometry and algebra II; three (3) units sciences from among physical, biological; and seven (7) units of electives, which may include higher

mathematics, additional science, social studies, and foreign language. Three years of college preparatory foreign language study is recommended for students who wish to continue college-level work in the languages or who plan to transfer to other colleges and universities which have a foreign language requirement.

Students who intend to select a science major should have had two years of algebra, plane geometry and/or trigonometry. Solid geometry and a year of high school chemistry are strongly recommended. In addition, prospective engineering students should have studied physics and mechanical drawing. Students who plan to major in Business Administration should take two years of algebra in high school.

Prospective College of Agriculture students are advised to take high school biology and chemistry, and two years of algebra. All prospective students must obtain a high school diploma, GED or equivalent prior to enrollment.

Applicants denied admission may reapply as transfer students after satisfactorily completing 24 semester hours of transferable courses at another regionally accredited college or university.

### Profile of Admitted Students

Generally, successful applicants attain a 2.5 GPA for all college-preparatory high school course work, achieve minimum SAT test scores of a combined 900 or ACT test score of a 19 composite, and rank in the upper 50% of their graduating class.

#### Fall 2000 Enrolled Freshmen Profile

- 1,433 applied, 1021 accepted (71%), 455 enrolled (45%)
- Ave HS GPA: 3.01
- Ave class HS rank: 54%
- High School: Private 8%, Public 92%
- In State: 71% in-state, 29% out-of-state
- Middle 50% SAT range: 870-1100
- Average Verbal SAT: 480
- Average Math SAT: 493

### Admission of Nonresidents

Candidates for admission from outside the State of Hawai'i must meet all the requirements noted for Hawai'i applicants. Out-of-state candidates should await written notice of acceptance before coming to Hawai'i. No special consideration will be given to students whose applications have not been accepted.

### Admission of International Students

International applicants must fulfill all requirements for regular admission as stated above and must comply with all regulations of the Immigration and Naturalization Service. They must submit the System Application Form and the Supplementary Information Form for Foreign Students.

Candidates must present evidence of having completed the equivalent of a United States high school education (12 years of primary and secondary schooling). Such evidence may include an official copy of secondary school academic records, and/or official certificates of the results of qualifying examinations and attested true copies of mark sheets. The Scholastic Aptitude Test (SAT) is not required, but recommended. All documents not in English must be accompanied by a certified English translation.

All international candidates whose native language is not English must also submit the results of the Test of English as a Foreign Language (TOEFL), Cambridge IELTS, or Educational Testing Service TOEIC. Information about the TOEFL may be obtained from the American embassy or consulate offices in most countries, or by writing directly to: Test of English as a Foreign Language, Box 899, Princeton, New Jersey 08540, USA.

International students may be admitted to the University by meeting the same academic requirements listed for Hawai'i Residents with the exception of the SAT or ACT, which may be replaced by the TOEFL or equivalent English language examination. Students with a score of 500 (173 computer-based score) may be admitted to the University in a degree program. Students with a TOEFL score below 500 (or equivalent on other exams), or students with no test scores, may be admitted to the University General Studies English Language Institute.

Once they have arrived at UH Hilo, all non-native speakers of English must take the English proficiency test and the Writing Placement Exam



prior to registration. Student performance in these tests will determine course placement.

All documents and test score results should be received by June 1 for fall semester and November 1 for spring semester.

Since financial aid is not available to students from other countries (except those from Micronesia), international students must provide verification from a sponsor of financial support for the entire period of study in the United States. A select number of highly qualified international students from certain Pacific/Asian jurisdictions may be eligible for a complete or partial tuition subsidy. Please contact the UH Hilo Admissions Office for details. **MEDICAL INSURANCE IS REQUIRED OF ALL INTERNATIONAL STUDENTS ENROLLED AT THE UNIVERSITY.**

### Admission of Graduate Students

Students applying to graduate programs in Hawaiian Language and Literature or Education should follow the requirements listed under their academic program. The \$25 application fee, all transcripts, test scores and letters of recommendation should be submitted to the Admissions Office, 200 W. Kawili Street, Hilo, Hawai'i 96720-4091.

### Admission of Transfer Students

Transfer students are those who were previously enrolled at a college or university other than the University of Hawai'i at Hilo.

Students who are transferring to UH Hilo must arrange for all official college transcripts to be sent to the Admissions Office directly from institutions previously attended. Those who have completed fewer than 24 acceptable semester hours of college-level work or who have enrolled in an unaccredited institution must also submit their high school transcript and SAT or ACT results. Transfer students who have completed at least 24 semester hours in a curriculum comparable to UH Hilo from an accredited U.S. college or university with a minimum GPA of 2.0 will be evaluated for transfer on the basis of their college transcripts only.

All students with less than 48 transferable semester credits must have obtained a high school diploma, from a regionally accredited high school, GED or competency-based high school diploma prior to enrolling at UH Hilo.

Except for courses completed at other campuses in the University of Hawai'i system (for which any passing grade will be accepted), only those courses in which a grade of "C" (70%) or better was earned will be accepted for transfer credit. When applicable, transfer credits may be counted towards the specific requirements of a program; otherwise, they will be counted as general electives. However, neither grade points nor grade point averages earned at other institutions are used in the computation of the UH Hilo cumulative grade point average.

Students transferring with any work done more than ten years prior to their admittance to UH Hilo may find such work subject to evaluation.

Official evaluations of transfer credit are completed after students enroll at the University. Students are encouraged to assist in this process by submitting course descriptions from previous colleges attended. Graduate course work will not transfer to an undergraduate degree program.

Students transferring into the College of Arts and Sciences and Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language at UH Hilo from outside the UH system with a transferrable A.A. degree from an institution accredited by a U.S. regional accreditation agency will be exempted from the General Education requirements, **unless specific course requirements are needed for a given major or specialty.** The A.A. degree must have been completed prior to initial matriculation to UH Hilo. This policy applies to students admitted to UH Hilo beginning with the Fall 1999 semester; continuing students enrolled at UH Hilo prior to Fall 1999 are not eligible for the waiver of General Education requirements.

Students from within the UH system who have six credits or fewer to complete their University of Hawai'i community college A.A. degree may transfer to UH Hilo and be exempt from the UH Hilo General Education requirements **providing the community college A.A. degree is completed in the first semester at UH Hilo.**

All other transfer students must fulfill the General Education requirements appropriate to their major and degree as stated in this catalog.

### Transcripts Required

Students who have enrolled at other colleges and universities may not disregard their records at such institutions. Students are required to file complete official transcripts of any and all academic work taken at other institutions. The final grades for courses-in-progress of provisionally admitted students are required to be on file at the Admissions Office no later than the deadline stated in the official letter of acceptance from the Admissions Office.

Failure to report previous college attendance and/or to file all required transcripts is sufficient cause for the cancellation of the student's admissions acceptance, denial of registration and/or dismissal from the University.

### Admission of Returnees

Any student who terminates his/her enrollment at the University by withdrawing from all classes, by not registering for a semester, or by graduating, and who subsequently desires to return, must reapply for admission by the application deadline. This includes a \$25 application fee. If the student attended another college or university in the interim, he/she must reapply as a transfer student. Contact the Admissions Office for more information.

### Admission of Unclassified Nondegree Students

A person who wishes to take courses at UH Hilo but does not wish, or does not qualify, to enroll in a degree program, may apply for admission as an unclassified student. An unclassified student is not a candidate for a certificate or a degree and will not be allowed to become a candidate unless he/she meets the admission standards required of students seeking a degree. Moreover, most types of financial aid programs will not be available to unclassified students. International visa students and WUE students are not eligible for unclassified nondegree status. Contact the Admissions Office for more information. **All unclassified students must submit the UH Hilo application form by the stated admission deadline.**

### Admission of Auditors

Persons wishing to participate in University courses for informational instruction only may apply by completing the auditor's application form. Permission of the instructor is required. Auditors receive no credit, and they do not take course examinations. See "Classification of Students" for more information.

### Early Admission Program

The Early Admission Program is intended to encourage highly motivated and academically talented high school juniors or seniors to advance in their schooling by supplementing their regular high school work with selected college courses. Interested applicants must comply with the regular admissions application procedure including application deadline dates. After consultation with their high school counselor and the University Admissions staff, qualified candidates may be admitted on a part-time, nondegree status. Acceptance is valid for a particular semester only. Continuation in the Early Admission Program depends upon the maintenance of a 2.0 grade point average (GPA) at the University and approval of the University in consultation with the high school counselor.

A student seeking early admission should submit the following items to the Admissions Office: a) a letter of recommendation from the principal, teacher, or the guidance counselor; b) a statement of purpose in applying for early admission, and the proposed class schedule; c) a statement from the Department of Education that the student will receive continuing counseling/support services from Department of Education personnel; d) a statement from the Department of Education that the student has exhausted all available secondary school education options; e) an official high school transcript and scores from the Scholastic Achievement Test.

### Admission to Summer Session

Admission to Summer Session is open to high school graduates and individuals 18 years of age or older. Students registering for the Summer Session are not required to submit high school or college transcripts. Admission to the Summer Session does not constitute admission to a regu-

lar semester as a degree candidate. Students are expected to have satisfied prerequisites for the course(s) in which they enroll, and are reminded that grades earned in college courses during the summer may impact their admission to college in the future. Non-native English speaking students must demonstrate English proficiency.

High school students interested in the Summer Program should meet the requirements stated above in the Early Admissions Program.

### Transfer Credit

Formal evaluations will be completed after students register for classes at UH Hilo. To assist with registration and advising, preliminary evaluations will be processed by the Admissions Office upon receipt of a non-refundable partial advanced tuition deposit. Prospective students may meet with an admissions officer for a personal preliminary evaluation prior to applying. This service is normally conducted in person.

Coursework eligible for transfer credit must be of baccalaureate-level from regionally/accredited institutions (U.S.) or nationally recognized if from a foreign country. Grades in these courses must be "C" (70%) or above to transfer.

To complete an evaluation, the Admissions Office must be in possession of the previous school's catalog, bulletin, handbook, or other institutional document with provides descriptions of the courses completed. It is the student's responsibility to ensure that course details are available to the Admissions Office. Students are advised to bring these descriptions with them when they enroll at UH Hilo.

If a transfer student has concerns over the evaluation of transfer credit awarded them they should appeal to Mr. James Cromwell, Director of Admissions, for a review of their concerns and for reevaluation.

If a student is transferring from a college or university that has an articulation agreement with the University of Hawai'i at Hilo and has concerns over the evaluation of transfer credit awarded them, they may appeal. These students should contact Ms. Winifred Tatsuta in the Registrar's Office for a review of their concerns and for resolution.

International students must have original documents from their previous institution submitted to the Admissions Office which explains the course content, grading system, contact hours and calendar system. If this document is not in English, certified translations must be provided. Professional educational translation services are available in most locations. If outside the United States, please contact the nearest U.S. Embassy or Consulate for translation information.

### The Honors Program

The UH Hilo Honors Program is designed to motivate, challenge, and enrich students in order to promote their intellectual curiosity, nurture their intellectual independence, and deepen their sense of scholarship. In the Honors Program a group of students will be selected who are outstanding in their desire for learning, demonstrated ability and intellectual enthusiasm. These students will work in small groups or individually with research and teaching faculty from all UH Hilo colleges.

Students who will have fewer than 45 semester hours of credit at the point at which they would enter the program are invited to apply. Admission is upon consideration of the following: overall academic record; SAT and other test scores; extracurricular activities; work experience; recommendations; an application essay; and often an interview with the Honors director. For more information, contact the Honors director. Program requirements and course descriptions are listed under Honors in the departmental course listings.

### Admission to Agriculture Development Program

The College of Agriculture, Forestry & Natural Resource Management also offers an Agriculture Development Program. This program is for students who may not meet the usual requirements of admission, but who show exceptional promise. First-time students admitted into this program are regarded as students in good standing and are subject to the same academic regulations as other students of the college but are, in addition, provided with special testing, advising, course work, tutoring, and counseling to improve their abilities and chances of success. Please refer to the College of Agriculture, Forestry & Natural Resource Management section for further information.

## Registration, Withdrawals and Other Changes

### Regular Registration

The dates for registration are given in the UH Hilo Academic Calendar. Students will receive information about registration from the Registrar prior to the beginning of each semester.

Students may be barred from registering until they have cleared all academic or financial obligations. Registration is not complete unless all tuition and fees have been paid by the payment deadline.

### Late Registration

The last date on which students may register in any term is indicated in the UH Hilo Academic Calendar. There is a fee for late registration.

### Concurrent Registration

Students may enroll concurrently at two UH system campuses provided: 1) they are officially enrolled at the home campus for at least one-half of the credit load for the semester; 2) they are in good academic standing at both campuses; 3) they are registering for courses applicable to their academic program but not available at the home campus; 4) they have the approval of their home campus adviser and of the second campus; 5) they are registering for a maximum of six semester hours at the second campus. For specific application policy and forms, see the home campus adviser. A student who fails to comply with these conditions may be disenrolled from UH Hilo.

### Course Changes

Students who wish to add a course or withdraw from a course may add or drop classes on the touch tone/voice response or web registration system during the first five days of a Fall or Spring semester or the first three days of a regular summer session. Subsequent withdrawals after the Last Day to Add a Course must be processed on the Change of Registration form. There is a fee for course changes.

**To Add a Course:** Students may enroll in (ADD) any course through the first five (5) days of instruction, or the first three (3) days of a summer session. The last day to add a class is the same as the last day to register for credit as indicated in the UH Hilo Academic Calendar.

**To Drop or Withdraw from a Course:** Students may DROP from a course without academic penalty during the period described in the UH Hilo Academic Calendar (until the end of the first three weeks of instruction). Students must use the "Change of Registration" form to drop a course. When dropping a course during this period, the student's transcript will not show that he or she was enrolled in the course.

Students may WITHDRAW from a course without academic penalty during the period described in the UH Hilo Academic Calendar (until the end of the eighth week of instruction). Students must use the "Change of Registration" form to withdraw officially from a course; students who simply stop attending classes without completing and submitting this form are not officially withdrawn. When withdrawing from a course during this period, students will receive a grade of "W" for each official course withdrawal. Students who fail to withdraw officially during the period prescribed in the UH Hilo Academic Calendar risk receiving an "F" for such courses.

### Complete Withdrawal

Students who wish to withdraw *completely* from the University of Hawai'i at Hilo should obtain the appropriate form from the Records Office and follow official procedures. Students who completely withdraw before the end of the third week of instruction will not have such classes as part of their academic record and should these students wish to return for any subsequent semester, they need to submit an admissions application for readmission. Students who completely withdraw after the third week of instruction will receive a "W" for each of the courses in progress at the time of withdrawal. Students may complete withdraw through the last day of instruction. Those students who receive "W" need not submit an admissions application for the following semester.

### Change of Major/College/Classified Status

*Classified* students who wish to change their major/college should consult their faculty advisor before completing a Declaration/Change of Major/Program form. This form is available at the Records Office. However, *unclassified* students who wish to change into classified status must use the Common Application Form. Graduating students who wish to enroll in future semesters are required to reapply for entry on the Common Application Form.

### Transcripts

A student may obtain an official transcript of his/her academic record completed at the University of Hawai'i at Hilo by filing a written request at the Business Office. Students who took classes at Hawai'i Community College prior to summer session 1992 need to request their transcripts from UH Hilo. Transcripts of classes taken at HawCC from the summer session 1992 and thereafter must be obtained from HawCC. A fee is charged in advance for each transcript requested. Transcripts from other educational institutions become the property of UH Hilo and will not be released or copied for students. Students should arrange for such records to be sent from the original educational institutions.

## Classification of Students

The following classifications are used to describe persons attending classes:

**Full-time or Part-time Students:** Students may register either part-time or full-time. Undergraduate students are full-time if they register for 12 or more semester hours, and part-time if they register for fewer than 12 semester hours. Graduate students are full-time if they register for 8 or more semester hours and part-time if they register for fewer than 8 semester hours.

**Classified Students:** Classified students are those who are candidates for a degree or education certificate.

**Unclassified Students:** All students who are not candidates for a degree or education certificate are termed "unclassified students." Unclassified students do not qualify for financial aid.

**Class Standing:** Students are subdivided in the College of Agriculture, Forestry & Natural Resource Management; the College of Arts and Sciences; and the College of Hawaiian Language as follows: freshmen, 0-24 semester hours completed; sophomores, 25-54; juniors, 55-88; seniors, 89 or more; masters, post-baccalaureate. Freshmen and sophomores are lower-division students; juniors and seniors are upper-division students; masters are graduate students; education certificate students are post-baccalaureate students.

**Auditors:** Auditors are persons who are permitted to attend classes with the instructor's consent and who have paid tuition for this privilege. The extent of their classroom participation is determined by the instructor. No credit is given for a course which is audited. No records are kept of the work done by auditors. *Auditors must complete the "Auditor's Form," provided by the Registrar, no earlier than the first day of instruction.*

## Course Numbering System

The University of Hawai'i course numbering system applies to all units of the University. Portions relevant to the University of Hawai'i at Hilo are as follows:

100-499	Courses which may be used to satisfy the requirements of a bachelor's degree.
100-299	Initial or introductory courses (lower division).
300-499	More advanced or specialized courses (upper division).
500-599	In-service training courses in education.
600-699	Typically taken in first year of graduate study or first in sequence.
700-798	Advanced graduate courses

(Courses numbered 300 to 499, 600-798, may be accepted by the Graduate Division of the University of Hawai'i at Manoa to satisfy graduate degree requirements.)

### Course Listing Codes

The courses offered by each college are coded as to frequency of offerings:

- (S) every semester
- (Y) yearly
- (AY) alternate years
- (IO) infrequently offered

## Credits, Grades, and Examinations

Work accomplished by students is recognized in terms of semester hours, grades, grade points, and grade point average (GPA).

### Credits

Courses are assigned semester credit values determined by the number of hours of study per week required of the student in and outside of the classroom or laboratory. Although semester credit hours normally are fixed, some variable credit courses are offered. The amount of credit given for a variable credit course must be approved by the instructor and may not exceed the maximum semester hours that are defined for each course in the Course Description section.

**Maximum Credit Load:** Students will usually not be allowed to register for more than 18 credits per semester, including work taken through the College of Continuing Education and Community Service. Students who wish to take more than 18 credits per semester must have a cumulative GPA of 3.0 or better, and the written permission of the advisor and the appropriate college dean is required. Under no circumstances shall a student be allowed to register for more than 24 semester hours in any semester.

### Grades

Students receive one grade in each course taken. This grade combines the results of course work, tests, and final examinations. Grades are indicated by letters and plus/minus to each of which is assigned a certain value in grade points per semester hour of credit, as shown in the table below:

Grade	Significance	Grade Points Per Semester Hour of Credit
A	Excellent	4.0
A-		3.7
B+		3.3
B	Good	3.0
B-		2.7
C+		2.3
C	Satisfactory	2.0
C-		1.7
D	Poor	1.0
F	Failure	0.0
I	Incomplete	
CR	Credit	
NC	No Credit	
W	Withdrawal	

**Incomplete Grade (I):** A grade of "I" may be given for a course in which a student has failed to complete a small but important part of a semester's work, if the instructor believes that the failure was caused by conditions beyond the student's control and not by carelessness and procrastination. It is the student's responsibility to request an incomplete grade.

Each student who receives an "I" should consult with the instructor to determine what work must be done to remove the "I". If this work is completed by the deadline specified in the UH Hilo Academic Calendar,

the instructor will report a change of grade, taking the completed work into consideration. If this work is not completed by the deadline, the "I" grade will become a grade as determined by the instructor. The time limit for incomplete removal prevails whether or not the student maintains continuous enrollment.

An instructor who assigns a grade of "I" will complete a Report of Incomplete Work form indicating what work must be done to complete the requirements of the course. The instructor shall retain the original of the form and provide the student and division chairperson with a copy.

A grade of "I" must be removed by the instructor who assigned it, unless there are exceptional circumstances. In such circumstances, the division chairperson or the dean can report a change of grade.

**Credit/No Credit (CR/NC):** Students may take a maximum of two (2) courses per semester on a "Credit/No Credit" basis, provided that they are not on academic probation. Except for internship courses, such as Political Science 481, not more than 12 CR/NC semester hours may be counted toward the requirements for a degree, and courses completed on CR/NC option may not be used to satisfy the requirements for a major, minor, or certificate. Once the CR/NC option has been exercised for a course, the designation may not be removed. To qualify for "credit," the work of the student must be at least at the "C" (2.0) level. The CR/NC option must be exercised by the date designated for this purpose in the UH Hilo Academic Calendar.

**Grade-point averages (GPA)** are determined by dividing the total number of grade points by the total number of credits for which a student has received letter grades (excluding I, CR, NC, or W.)

The *semester GPA* is calculated on any one semester's credits and grade points. The *cumulative GPA* is calculated on all such work taken at UH Hilo.

**Grade Reports:** Students will access their grade results through the Touch Tone/Voice Response system or Web Student Information System (WebSIS). (Refer to the section on "Transcripts" for paper copies.)

**Change of Grade:** A student who believes an error has been made in the assignment of a grade must initiate contact with the faculty member involved, the division chair or dean prior to the last day of instruction of the next regular semester. Failure to act within this time period disqualifies the student from further consideration of the matter. Students requesting other changes in their academic record must present a written petition to their dean. The petition must include a statement of the requested action, justification and supporting documents. Generally, such actions will not be considered if more than one year has elapsed.

## Credit-by-Examination

Students at the University of Hawai'i at Hilo are eligible for several forms of credit by examination.

**A Maximum of 30 Credits Earned Through Any of the Following Credit-by-Examination Alternatives May Be Applied Toward the Bachelor's Degree.**

### College Level Examination Program (CLEP):

The College Level Examination Program enables students to earn college credit by examination in areas approved by the disciplines. Regular students may take CLEP tests to demonstrate college level competency no matter when, where or how this knowledge has been acquired: through formal study, private reading, employment experiences, non-credit courses, military/industrial/business training, or advanced work in regular high school courses. This program gives individuals the opportunity to validate and receive credit for college-level knowledge they already possess.

Criteria for passing the CLEP general and subject examinations are determined by the appropriate academic discipline. A satisfactory score on these examinations, as determined by the appropriate academic division, yields course credit.

Satisfactory scores for advanced standing for CLEP general examinations at UH Hilo are as follows:

Humanities	533	(3 semester hours)
Mathematics	550	(3 semester hours)
Natural Sciences	546	(3 semester hours)
Social Sciences	528	(3 semester hours)

No student is eligible to take CLEP general examinations for UH Hilo credit after reaching sophomore standing; i.e., the student must have completed not more than 24 semester hours of college work.

CLEP examinations are administered through the Counseling Office, Student Services Bldg., Room 204; (808) 974-7312. A CLEP fee must be paid before the CLEP examination can be administered. Students completing CLEP examinations with acceptable scores will receive advanced standing college credits which will be noted on their permanent academic record. College of Arts and Sciences students may also apply these credits to their General Education Area requirements where appropriate.

### Advanced Placement Examination Program (AP):

Credit for comparable UH Hilo courses, as well as advanced standing, may be granted to students who complete Advanced Placement Tests offered by the College Entrance Examination Board. These exams are administered in high schools for students who have completed specific college-level courses in high school. Advanced placement credit decisions are made by the faculty of the appropriate UH Hilo academic discipline. Specific information about Advanced Placement Tests is available from the Counseling Office (Student Services Building, Room 204); (808) 974-7312, or directly from the College Entrance Examination Board.

### International Baccalaureate:

Advanced standing credit may be awarded for coursework completed in the International Baccalaureate Program (IB). Scores of 4 or greater in higher level examinations will be considered for advanced credit. Contact the Admissions Office for equivalences.

### Credit by Institutional Examination:

Students who are enrolled in the University and who believe they have mastered the content of a specific course may, with the permission of the chair of the appropriate academic discipline, be given an examination to determine whether credit should be given for the course. If approval is granted, the chair shall arrange for such an examination. The examination shall be as comprehensive as the usual "final examination," and must be designed to serve as the scholastic equivalent of the course. A satisfactory score will yield course credit in the subject and, at the discretion of the discipline, either a letter grade or the grade "CR" will be entered on the student's permanent academic record.

See the UH Hilo Academic Calendar for last day to apply for Credit by Exam in the fall and spring semesters.

A fee is required for each credit by institutional examination attempt. Where special tests, supplies, and/or materials are required, the student will bear the cost of such items.

### Credit for Previous Foreign Language Study:

Students who have learned Hawaiian or foreign languages outside of the University of Hawai'i may earn credit for their language in one of three ways: (1) through credit by institutional examination, if the language is taught at the College of Arts and Sciences or Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language (2) through the Advanced Placement Examination Program; or (3) through the College-Level Examination Program. For more detailed information, students should consult with the Chairperson of Languages at the College of Arts and Sciences (Humanities Division, Edith Kanaka'ole Hall) or Director of Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language (Edith Kanaka'ole Hall Rm 235).

Native and bilingual speakers of a foreign language may not receive credit for courses in that language which are designed for non-native speakers.

### Foreign Language Placement Tests:

Students who previously studied foreign languages must consult with the Chairperson of Languages in order to determine the level at which they should enroll for language study.

### General Certificate on Education Examination Held Overseas (GCEEEO):

The College of Arts and Sciences accepts only "A"-level GCEEEO Examination grades of "A," "B," and "C."

### Credit for Education Received While in Military Service:

Upon registration and submission of service documents and certificates, the Admissions Office will evaluate all educational experiences undertaken during military service in accordance with the credit recommendations of the Commission on Accreditation of Service Experiences and the Guide to Evaluation of Educational Experiences in Armed Forces. The Admissions Office will transmit its evaluation and recommendations to the relevant discipline for action as to the amount and kind of credits, if any, which are to be accepted. College courses satisfactorily completed through the Defense Activity for Nontraditional Educational Support (DANTES) may be accepted for advanced standing upon the recommendation of the Admissions Office and approval by appropriate faculty members.

## Final Examinations

Final examinations normally are required in all courses except reading, research, and seminar courses. Final examinations are to be conducted during the final examination period specified in the UH Hilo Academic Calendar and Schedule of Courses or, in the case of modular courses only, on the last day of class.

No final examinations are allowed in the two weeks preceding the final examination period.

## Repeating Courses

Students may repeat for letter grade only those courses in which the previous grade was "C-," "D," "F," or "NC." The only courses a student may repeat with a Credit/No Credit option are those in which the student previously received a grade of "NC" (No Credit). A course for which a student has already received credit may not be repeated through credit by institutional examination. Courses initially taken at UH Hilo must be repeated at UH Hilo in order for the repeat grade to be calculated in GPA.

When a course is repeated, the GPA is computed by using the higher of the two grades received. If "W" is the "repeat" grade, the initial grade will be used to compute the GPA. All entries remain a part of the student's permanent academic record.

Students may not enroll in a course and receive a grade (including W) more than three times. The exception to this policy are those courses identified in the catalog as repeatable.

### Repeatable Courses

Only certain courses are identified in the catalog as repeatable. Their course descriptions include the phrase "may be repeated for credit".

## Directed Reading and Directed Studies

Directed Reading and Directed Studies require the sponsorship of a member of the faculty and approval by the relevant department chair, and a description of the work to be undertaken which, in turn, requires planning in advance of the registration period. Sufficient time, therefore, must be allowed for such planning and for obtaining the necessary faculty approvals.

While a Directed Reading and/or Directed Studies project normally is student-initiated, early interaction with faculty is essential in the development of a mutually acceptable project description. At a minimum, such a description should contain an outline of the study topic, specification of the work to be done and the materials to be read, the credit to be given, the type and frequency of faculty-student contact, and a statement of the evaluative criteria to be used by the faculty member.

A student may register for not more than six (6) semester hours of Directed Reading and/or Directed Studies per semester with not more than three (3) semester hours granted for any single such course. Not more than twelve credits received from directed reading and/or directed studies courses may be applied toward a bachelor's degree.

## Academic Waivers and Substitutions

Any student may petition the appropriate college dean for a waiver or a substitution of any academic policy or regulation. The petition should include clear and convincing justification for the action requested.

The College of Arts and Sciences (CAS) provides a special form for this purpose which may be obtained in any of the Division Offices or the CAS Dean's Office.

## Attendance, Satisfactory Progress, Academic Probation, Dismissal, Readmission, Bankruptcy

### Attendance

Regular on-time attendance in class and laboratory sessions is expected of all students in the University. Unavoidable absences should be explained to the instructor involved. If a student finds it necessary to take a leave of absence during a semester, he/she should discuss this with each instructor and arrange to make up course requirements.

Students failing to attend classes during the Add/Drop period may be dropped from those courses to accommodate students on waiting lists.

### Declaration of Major

All classified UH Hilo students must declare a major before registering for the junior year.

### Satisfactory Academic Progress for Undergraduate Programs

Satisfactory academic progress is defined by the University of Hawai'i at Hilo as maintaining a cumulative GPA of at least 2.0.

### Academic Warning

A student whose semester GPA is less than 2.0 will be notified and will be encouraged to seek academic counseling.

### Academic Probation

A student whose cumulative GPA is less than 2.0 will be placed on academic probation.

### Continued Academic Probation

Following a semester on academic probation, a student will be placed on continued academic probation if the GPA for the semester just completed was 2.0 or higher, but the cumulative GPA remains less than 2.0.

### Academic Dismissal

A student whose semester and cumulative GPA is below 2.0 at the end of a semester of academic probation or continued academic probation will be dismissed from the University. He/she may appeal the academic dismissal in writing to the appropriate college dean within 10 working days of receiving the notification of academic dismissal.

### Readmission

A student who has been dismissed from the University for academic reasons may apply for readmission one semester after the date of academic dismissal. Such a student may be readmitted only under circumstances deemed acceptable to the appropriate college dean. Readmission is not automatic and will be granted only where there is evidence the student will perform satisfactorily.

### Academic Bankruptcy

College of Arts and Sciences and College of Agriculture, Forestry and Natural Resource Management students may declare one semester of their academic career at UH Hilo as an academically bankrupt semester. Although the student's GPA will be recalculated to exclude all of the grades from the bankrupt semester, *the grades from that semester will remain on the transcript*. A notation that the student has declared academic bankruptcy

will appear on the transcript. Declaring academic bankruptcy must be made prior to graduation.

Students who are interested in declaring academic bankruptcy should take the following into consideration:

- Courses taken during the semester for which a student declares academic bankruptcy count toward the "3-peat" rule, which limits to three the number of times a student may take a course.
- If a student received financial aid during the semester for which he/she declares academic bankruptcy, he/she should consult with the Financial Aid Office to determine how declaring academic bankruptcy might impact his/her financial aid eligibility.
- No courses taken during the semester of academic bankruptcy shall count toward a degree or certificate.
- Only one semester may be declared bankrupt during a student's academic career at UH Hilo.
- Under no circumstances may less than a full semester's work be declared bankrupt.

The form to declare academic bankruptcy is available at the College Dean's Offices and Division Offices.

### Other Provisions

Upon finding that a student is suffering from a physical or mental condition detrimental to the student and the University of Hawai'i at Hilo community, the Vice Chancellor for Student Affairs will, on professional advice, recommend proper action to the appropriate college dean. The college dean may then request that the student be withdrawn officially, without prejudice or academic penalty.

Readmission is contingent upon review and recommendation by the college dean or college director and the Vice Chancellor for Student Affairs. Such a recommendation may include professional care.

## Satisfactory Academic Progress for Graduate Programs

### Minimum GPA

To remain eligible for further graduate work and to be awarded a graduate degree, students must maintain progress toward completion of their programs and must have a B average (3.0 GPA) for all courses completed at the University of Hawai'i toward the degree. Students must also have a B average for all courses taken as a classified graduate student and for all graduate courses numbered 600 and above.

### Fulfillment of Credit Hour Requirements

Credit hour requirements for graduate degrees can only be fulfilled by grades of A, B, and C, except for 699 courses taken under the CR/NC option. Grades of A, B, C, and CR can be used to make up undergraduate deficiencies. Grades of CR for 699 directed reading or research courses are counted in credit hour requirements within stated rules but are not computed for GPAs. Grades of NC are neither counted nor computed. Grades of D and F are not counted toward the completion of requirements for advanced degrees but are computed in the GPA, along with grades for all courses taken to satisfy undergraduate deficiencies and courses counted toward advanced degree.

### Probation and Dismissal

A regular student whose cumulative GPA fails to meet the minimum requirements after completing at least 12 credit hours or two semesters of course work will be placed on academic probation for the following semester.

A conditional student whose GPA since admission fails to meet the minimum requirements after completing one semester of course work will be placed on academic probation for the following semester.

All grades for courses taken during the probationary semester, as well as the grades for all previously taken classified credits, will be included in calculating the GPA at the end of the probationary semester. No extensions of the probationary semester may be granted due to incompletes (I).

A student on academic probation who fails to attain the minimum standards at the end of the probationary semester will be denied further

registration in that program. For some graduate fields of study, students admitted conditionally are placed on academic probation for their first semester.

For purposes of these rules, a "semester" is the calendar period, regardless of the number of credit hours taken.

Two summer sessions equal one semester, regardless of the number of credit hours taken.

In special cases, two grades below B in undergraduate courses taken during the first semester as a graduate student at the University may be excluded when computing the GPA if a petition, filed by the student and recommended for approval by the chair of the graduate field of study, is approved by the Graduate Program. If these grades are so excluded, the concomitant course credit hours may not be counted toward fulfillment of requirements for graduate degrees. Any such waiver will not alter the official University record of student grades and GPAs.

## Honors

**Dean's List:** Shortly after the close of each semester, the names of all full-time undergraduate students enrolled for baccalaureate degrees who earned 12 or more semester credits for a letter grade and achieved a GPA of 3.5 or above in the preceding semester will appear on the Dean's List.

## Academic Dishonesty

Plagiarism, cheating, and collusion as defined in the University of Hawai'i at Hilo Student Conduct Code, Category 2, H, will not be tolerated. A faculty member may impose a grade sanction for academic dishonesty and may refer the matter to the Vice Chancellor for Student Affairs in accordance with stipulations set forth in the University of Hawai'i at Hilo Student Conduct Code. Copies are available in the Office of the Vice Chancellor for Student Affairs.

## Academic Grievances

A student who believes that a faculty member has failed to meet reasonable standards of academic propriety may register a grievance. The "Student Academic Complaint Policy" has been established to provide guidelines and processes governing academic grievances. The student should first attempt to resolve the grievance on an informal basis with the faculty member. Should the grievance not be resolved at this level the student should discuss it with the division chairperson and, if necessary, the dean of the college. Copies of the academic grievance policy are available in the offices of the dean or director of each college and in the office of the Vice Chancellor for Academic Affairs.

## Participation in Assessment Efforts

The University of Hawai'i at Hilo is committed to providing students the highest quality college experience. In order that we continue to improve programs and activities, students may be required to participate in university assessment efforts including university-wide surveys and surveys relating to General Education or the student's major field of study. Responses will be kept confidential.

## Graduation Requirements

A student must satisfy either the graduation requirements in effect at the time he/she first enrolls as a classified student in a specific UH Hilo degree or certificate program, or the requirements in effect at the time of his/her graduation. A student whose enrollment is interrupted for more than two consecutive semesters (excluding summer sessions) must complete the requirements in effect at the time the student is readmitted or the requirements in effect at the time of his/her graduation.

### Baccalaureate Degrees: General Requirements

Baccalaureate degrees are granted only to those students who (1) complete satisfactorily the program of courses prescribed for their majors; (2) earn at least a 2.0 cumulative GPA as well as a 2.0 GPA in courses required for the major and minor (if any); (3) earn a minimum of 30 semester hours in the college from which

a degree is sought; (4) are registered and in attendance at the University of Hawai'i at Hilo during the semester or summer session in which the degree is granted; and (5) meet all requirements of their respective colleges and departments. All degree requirements must be met within the special limitations imposed upon directed reading/directed studies, Credit/No Credit and special topics courses, and the credit by examination policy. Students should consult the appropriate sections of this catalog or speak with their faculty advisors for more details on these limitations.

### Application for Graduation

An application for graduation from any of the certificate or degree programs offered by the University of Hawai'i at Hilo must be cleared by the Records Office and submitted to the Business Office for processing by the deadline specified in the UH Hilo Academic Calendar. A non-refundable fee is charged upon application. Failure to file a graduation application by the specified deadline will result in a delay of graduation.

### Graduation in Absentia

Under extraordinary circumstances, students may earn their final credits at an institution other than UH Hilo and, upon official transfer of these credits back to UH Hilo, graduate with their degree from UH Hilo. This practice is called graduation *in absentia*. Students must demonstrate a compelling personal reason to graduate *in absentia*, and their application must be approved by the appropriate dean *before* any courses are taken *in absentia*.

Graduation *in absentia* is not automatic nor is it a right of students.

In order to be eligible to be considered for graduation *in absentia*, a student must meet all of the specified conditions.

### Honors at Graduation

Honors at the College of Agriculture, Forestry & Natural Resource Management or College of Arts and Sciences or Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language shall be determined in accordance with the cumulative GPA upon graduation in courses taken at the University of Hawai'i at Hilo in the following manner:

Honors	GPA of 3.50 to 3.69
High Honors	GPA of 3.70 to 3.84
Highest Honors	GPA of 3.85 to 4.00

Only students who earned at least 60 semester hours at UH Hilo and which were applicable toward a baccalaureate degree are eligible for graduation with honors. In addition, at least 54 of the 60 applicable semester hours must be taken for a letter grade.

## Time Limits

Students transferring into UH Hilo with work done more than ten years prior to their admittance may find such work subject to evaluation.

## Specific Degree Requirements

### I. General Education Requirements

The General Education requirements are designed to provide balance and coherence to the baccalaureate, liberal arts education. General Education is conceived as providing a series of experiences which enable the student to become a broadly educated person, with the skills for continuing self-education. It is designed, specifically, to provide the liberal arts college student and graduate with the means to:

1. Think clearly and logically; communicate effectively, both orally and in writing; find, examine, and utilize information; and carry out fundamental numerical operations.
2. Gain knowledge of one's body and mind; understand how human societies develop and operate; learn about the natural world—its forces, principles and occupants; and develop a familiarity with the cultural heritage and contributions of world cultures including their art, music, literature, and science.
3. Develop an understanding and awareness of the principles, methods, and thought processes utilized in academic/intellectual inquiries.



photo courtesy of UH Hilo Graphic Services

4. Recognize and understand the interdependence between mankind's view of the biological and physical continuum and the development of culture, literature, and aesthetics.

Students are cautioned that, in a few instances, a single course has been approved as satisfying more than one of the General Education requirements. However, students completing such a course may only receive credit toward a single General Education requirement. They will be offered their choice of which requirement is satisfied and will be expected to fulfill the other requirement(s) with other courses.

### Transfer Students with an A.A. Degree from Outside the University of Hawai'i System:

Students transferring into the College of Arts and Sciences and Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language at UH Hilo with a transferrable A.A. degree from an institution accredited by a U.S. regional accreditation agency will be exempted from the General Education requirements, *unless specific course requirements are needed for a given major or specialty*. The A.A. degree must have been completed prior to initial matriculation to UH Hilo. This policy applies to students admitted to UH Hilo beginning with the Fall 1999 semester; continuing students enrolled at UH Hilo prior to Fall 1999 are not eligible for the waiver of General Education requirements.

### Transfer Students from within the University of Hawai'i System:

Students who have six credits or fewer to complete their University of Hawai'i community college A.A. degree may transfer to UH Hilo and be exempt from the UH Hilo General Education requirements *providing the community college A.A. degree is completed in the first semester at UH Hilo*.

### Other Transfer Students:

All other transfer students must fulfill the General Education requirements appropriate to their major and degree, as stated in this catalog.

**Students Pursuing a Second Baccalaureate Degree:** Students entering the College of Arts and Sciences and Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language at UH Hilo with a Bachelor of Arts degree (excluding other baccalaureate degrees) from an accredited college or university will be deemed to have fulfilled the General Education requirements, unless specific course prerequisites are needed in a given major.



## II. Major, Minor and Certificate Requirements

Requirements for specific majors, minors and certificates are described in the course description section of each department. Students may pursue more than one academic major, provided that the requirements for each major are satisfied. In the case of majors that require identical courses, no more than nine semester hours of such courses may be counted as simultaneously fulfilling the unit requirements of majors. Courses required for the major may also be used to fulfill the General Education requirements. See specific major listings for minimal required grades.

Students transferring into the College of Arts and Sciences or Ka Haka 'Ula 'O Ke'elikōlani College of Hawaiian Language, regardless of the number of transfer credits accepted, must earn a minimum of 25 percent of the required semester credits for their major(s), minor(s), and certificate(s) at UH Hilo.

## III. Writing Intensive Course Requirement

College of Arts and Sciences and Ka Haka 'Ula 'O Ke'elikōlani College of Hawaiian Language students are required to take Writing Intensive (WI) courses for graduation. At least one of these WI courses must be numbered 300 or above.

**Freshmen entering in 1995-96** must complete two WI courses. **Freshmen entering in 1996-97 and later** must complete three WI courses.

The WI requirement for transfer students varies depending upon year of entry and transfer credits accepted by UH Hilo. The number of WI courses required for transfer students is displayed below.

Status	FR	SOPH	JR	SR
No. accepted credit hours	0-24	25-54	55-88	89+
1995-96	2	2	1	0
1996-97 and later	3	3	2	1

## IV. Upper-Division Requirement

College of Arts and Sciences and Ka Haka 'Ula 'O Ke'elikōlani College of Hawaiian Language students are required to earn at least 45 semester hours in courses at the 300- and 400-level. Some majors (i.e. Art, Astronomy, Chemistry, Biology, Geology, Marine Science, Music, Natural Science and Physics) require more than 15 semester hours in 100- and 200-level courses. For students with these majors, the requirement for 45 semester hours in 300- and 400-level courses will be reduced by the number of semester hours over and above 15 in 100- and 200-level courses required for the major.

## V. Hawaiian/Asian/Pacific Requirement

College of Arts and Sciences students are required to take a minimum of three semester hours in courses whose content emphasizes Hawai'i, Asia, or some Pacific region, culture, or theme. This requirement is not part of the General Education requirements; however, courses used to satisfy this requirement may also be used to satisfy a General Education and/or major, minor, or certificate requirement. Select a minimum of three semester hours from the following:

Anthropology:	Anth 170, 200 (b) (c) (d) (e), 347, 355, 356, 357, 358, 385, 386, 387, 390, 435
Art:	Art 280, 380, 381, 385
Biology:	Biol 156, 156L, 190, 309
Chinese:	Chns 101, 102, 201, 202
Economics:	Econ 310, 330, 381, 410
English:	Eng 347, 365, 430
Geography:	Geog 101L, 120, 309, 326, 332, 335, 350, 385, 435, 496
Geology:	Geol 205
Hawaiian:	Haw 100, 101, 102, 107, 201, 202, 207, 303, 304, 403, 404, 453, 454, 455
Hawaiian Studies:	Haws 111, 175, 176, 194, 205, 211, 213, 294, 305, 361, 394, 462, 471, 472, 473, 474, 494, 497
History:	Hist 310, 311, 312, 313, 316, 317, 374, 417, 418, 476
Honors	Hon 202, 203
Japanese:	Jpns 101, 102, 131, 132, 105, 201, 202, 301, 302, 340, 353, 365, 401, 402, 425, 451, 452, 481, 482
Japanese Studies:	JpSt 100, 101, 102, 201, 202, 301, 302, 310, 311, 315, 340, 353,

356, 358, 365, 375, 381, 390, 401, 402, 417, 425, 430, 450, 451, 452, 481, 482, 494

Linguistics:	Ling 347, 451, 452, 453, 454, 455
Management:	Mgt 333
Marine Science:	Mare 190, 310
Music:	Mus 170, 175, 176, 375, 470
Nursing:	Nurs 350
Philosophy:	Phil 101, 300, 301, 302, 430, 435, 450
Physics:	Phys 120
Political Science:	Pols 231, 351, 353
Psychology:	Psy 360
Religious Studies:	RelS 152, 302, 303, 304, 315, 385, 390, 410, 430, 435, 450
Sociology:	Soc 480

Note: The Hawaiian/Asian/Pacific requirement is unique to the College of Arts and Sciences. Students graduating with a major in the College of Agriculture, Forestry, Natural Resource Management are exempt from this requirement.

## Second Degree/Concurrent Degree/Double Major Policy

Students may earn more than one degree at UH Hilo under the following conditions:

- In order to earn a second degree which is different from the first degree earned or in process (i.e. when a student with or pursuing a B.B.A. wishes to earn a B.A.):
  - A minimum of 30 credits must be earned after the first degree has been awarded.
  - No more than 9 semester credits may be applied from the major of the first degree to fulfill requirements for the major of the second degree.
  - All degree requirements must be fulfilled for both degrees.
  - Students pursuing a second baccalaureate degree are classified as seniors.
- In order to earn a second degree which is identical to the first degree earned (i.e. a student with a B.A. wishes to earn a second B.A.):
  - All of the above restrictions apply.
  - The major for the second degree must be different from that of the first degree.
  - A student whose prior degree was a B.A. from an accredited college may be exempted from the General Education requirements of the second B.A. degree excluding any course prerequisites required for the new major.
- In order to earn two or more degrees concurrently:
  - The degrees sought must be different (i.e. students may not earn two B.A. degrees concurrently).
  - The two degrees must be in different majors.
  - All degree requirements must be fulfilled for each degree.
- Students may declare a "double major" in pursuit of one degree (i.e., students may receive a B.A. with a double major in Anthropology and Geography or a B.S. with a double major in Biology and Geology). The conditions under which double majors are awarded are:
  - No more than 9 semester credits which satisfy the requirements of both majors may overlap.
  - Requirements for both majors must be completed before the degree is awarded.



## General Education Requirements (For all UH Hilo Baccalaureate degrees)

### I. General Education Basic Requirements

#### A. English Composition Requirement (3 semester hours)

Eng 100, 100T, or ESL 100

(All entering Freshmen, continuing or transfer students without English 100, and all students for whom English is not a native language must take the UH Hilo Writing Placement Examination.)

#### B. Quantitative Reasoning (3 semester hours)

Select from any Math course at the 100 or 200 level (except 199 or 299)

#### C. World Cultures (6 semester hours)

Select two courses from:

Agriculture:	Ag 230
Anthropology:	Anth 100, 170 (same as Mus 170)
English:	Eng 253, 254
Geography:	Geog 102
History:	Hist 151, 152
Indigenous Studies:	KInd 240

### II. General Education Area Requirements

#### A. Humanities Electives (9 semester hours)

Select from three different academic areas as listed below OR from two different academic areas plus one Interdisciplinary course which is eligible for Humanities credit, such as Honors.

##### Humanities Disciplines:

Art  
Communication  
English  
Hawaiian Studies and Indigenous Studies  
Languages (*including Hawaiian and Indigenous*)  
Linguistics  
Performing Arts  
Philosophy  
Religious Studies

#### B. Social Sciences (9 semester hours)

Select from three different academic areas as listed below OR from two different academic areas plus one Interdisciplinary course which is eligible for Social Sciences credit, such as Honors.

##### Social Sciences Disciplines:

Anthropology  
Business 100  
Economics or Agricultural Economics  
Geography  
History  
Political Science  
Psychology  
Sociology  
Women's Studies

#### C. Natural Sciences Electives (10 semester hours, including 1 semester hour of laboratory)

Select from three different academic areas as listed below OR from two different academic areas plus one Interdisciplinary course which is eligible for Natural Sciences credit.

##### Natural Sciences Disciplines:

Agricultural Sciences (*Aquaculture, Animal Science, Horticulture, Food Science, Forestry, Plant Pathology, Soil*)  
Astronomy  
Biology  
Chemistry  
Computer Science or Engineering

Geology  
Marine Science  
Mathematics  
Natural Science  
Physics

##### Notes:

1. Only courses numbered **below** 299 may be counted for General Education credit. Also, no 199 course may be counted for General Education credit.
2. No course may be counted for more than one General Education requirement.
3. To count for General Education Area Requirements, Interdisciplinary courses must be listed (in the UH Hilo Catalog) under **both** Interdisciplinary Studies **and** their respective disciplines.
4. Students who complete Mare 171/Biol 171 may choose to count that course EITHER as Marine Science OR as Biology but are STILL required to meet the Natural Sciences Area Requirement in **three** separate disciplines.
5. Courses which meet BOTH major requirements AND General Education Requirements may be simultaneously counted for BOTH. (Courses **are not excluded** from meeting the UH Hilo General Education Requirements solely because they may also be required for a major.)
6. Students who entered the University of Hawai'i at Hilo prior to the dissemination of these General Education Requirements may choose to be evaluated under these General Education Requirements described herein.



photo courtesy of UH University Relations

## Master of Arts in Hawaiian Language and Literature Degree Program Description

Whereas the B.A. in Hawaiian Studies has a very broad, interdisciplinary focus in its course work, the M.A. in Hawaiian Language and Literature has a somewhat narrower and more in-depth scope, while still maintaining an interdisciplinary approach with faculty from other fields.

### Entrance Requirements

All applicants for the M.A. in Hawaiian Language and Literature must:

1. Have a Bachelor's degree from an accredited college or university;
2. Have completed 30 upper division credits in courses with a Haw or Haws alpha, with no grade lower than a "B" and an overall minimum GPA of 3.5;
3. Pass an examination on Hawaiian language and culture;
4. Submit GRE scores (for internal use only);
5. Submit three letters of recommendation; and
6. Be interviewed by faculty of the Hawaiian Studies Division.

Study of an additional language is recommended as is experience in Hawaiian medium classrooms or similar environments where a high level of Hawaiian language occurs.

### Graduation Requirements

All Master of Arts degree candidates must fulfill the requirements for either Plan A or Plan B with no grade lower than a "B" for all course work. Plan B will be allowed only with permission from all Hawaiian Language and Literature graduate faculty.

#### PLAN A Minimum of 33 semester hours in approved courses

- Haw 630, 631, 654, 700; Haws 663
- 3 semester hrs. in Haws 661 or 662
- 3 semester hrs. in Haws 664 or 665
- 3 semester hrs. in Haw 690 or Haws 699V
- Earn 9 hours in upper-division and graduate Hawaiian Language or Hawaiian Studies courses: Haw 300-499V, Haw 600-700, Haws 300-499V, Haws 600-699V (except Haw 600, Haws 451-454).

#### PLAN B Minimum of 36 semester hours in approved courses

- 24 semester hrs. in Haw 630, 631, 654; Haws 661, 662, 663, 664, 665
- 3 semester hrs. in Haw 690 or Haws 699V
- Earn 9 hours in upper-division and graduate Hawaiian Language or Hawaiian Studies courses: Haw 300-499V, Haw 600-700; Haws 300-499V (except Haw 600, Haws 451-454).

### Summary of Procedures

The Graduate Division at UH Mānoa issues student progress forms for the College to notify the Graduate Division of each student's progress toward the degree. These forms are used for Master's Plan A; progress of Master's Plan B students may be reported on departmental forms.

To report student progress toward completion, the graduate chair of the College submits the following student progress forms to the Graduate Division Records Office.

### Student Progress

Form No.	Reporting, as applicable:	Requested for:
I	Results of preliminary conferences, appointment of interim advisee	Master's Plan A
II	Results of general examination; admission to candidacy; establishment of degree plan	Master's Plan A
III	Appointment of thesis committee adviser	Master's

IV	Approval of thesis topic	Plan A Master's Plan A
VI	Results of final oral examination	Master's Plan A
VII	Judgment of thesis	Master's Plan A
	Student submits final copies of thesis to the Graduate Division	Master's Plan A
	Student completes course work	

### Cohort and Other Requirements

Students are expected to enter the M.A. program as members of a cohort. This structure will avail students of the advantages of close peer interaction while, at the same time, maximizing the utilization of resources. As one class exits, a new one will be admitted. This cycle will renew itself every fifth semester. Exceptions, however, may be made for the admission of part-time and other non-cohort students under extraordinary circumstances.

Typically, students will take all required courses together and in the order prescribed by the program. Haw 630 will be completed in the first semester. Conversely, Haws 700, with variable semester hours up to six, will be the thesis exit class at the end of the course of study.

During the first or second summer in the program, students will fulfill the requirement of studying in a Hawaiian-speaking community or in an indigenous minority language program out-of-state. It is hoped this experience will broaden their perspective on language and culture revitalization beyond the UH Hilo setting. To help students, the program will seek funding and other forms of assistance; these may include reciprocal agreements with various universities.

The graduate faculty is comprised of the present Hawaiian Studies faculty as well as faculty from other disciplines who will serve on thesis committees and supervise students' research. Faculty will teach from one to two 600-700 level classes per year, not including Haw 690 which will be offered during the summer.

Once a research topic is determined, students will be encouraged to select a mentor from among a select group of outstanding UH Hilo faculty. This will allow for greater breadth within the cohort while affording students access to developments in other fields that could benefit their research.

### Course work

Haw 425	(3)	Translation into Hawaiian
Haw 630	(3)	Research Methods in Hawaiian Language
Haw 631	(3)	History of Hawaiian Language and Literature
Haw 632	(3)	Teaching Hawaiian as a Second Language
Haw 654	(3)	Advanced Hawaiian Grammar
Haw 690	(3)	Study in the Hawaiian Speaking Community
Haw 694	(3)	Special Topics in Hawaiian Language
Haw 699	(3)	Directed Studies in Hawaiian Language
Haw 700	(1-6)	Thesis Research
Haws 431	(3)	Living Hawaiian Language Communities
Haws 463	(3)	Introduction to Hawaiian Narrative Literature
Haws 464	(3)	Hawaiian Composition
Haws 661	(3)	Advanced Hawaiian Music
Haws 662	(3)	Applied Hawaiian Chant
Haws 663	(3)	Traditional Hawaiian Literature
Haws 664	(3)	European-Influenced Hawaiian Literature
Haws 665	(3)	Ethnological and Historical Narratives
Haws 694	(3)	Special Topics in Hawaiian Culture
Haws 699	(3)	Directed Studies in Hawaiian Culture

## Master of Education Degree Program Description

The primary purpose of the M.Ed. is to foster professional growth and renewal of educators who currently teach in public and private schools. While the teaching force on the Big Island of Hawai'i is a natural target population, the M.Ed. is designed for licensed teachers throughout the state and in select areas of the countries of the Pacific Rim. The program promotes teacher leaders who will engage in school renewal and reform through curriculum development, school decision-making, and community outreach.

### The program objectives are to:

Foster knowledge of current trends and issues in education including school change initiatives and reform movements, infusion of technology throughout schools, and methods of addressing the needs of diverse student populations;

Provide participants with experiences in critical and reflective analysis, which will enable them to integrate and apply a variety of research-based methods, materials, and processes in their classrooms;

Promote action research practices which will enable participants to contribute to the positive intellectual climate of their schools and to assume instructional leadership roles.

The M.Ed. is a 33-credit-hour cohort program that requires five semesters and two summers to complete.

### Admission Requirements

An application form and a detailed description of requirements are available from the Education Department or from the UH-Hilo Admissions Office. Following are the major requirements for admission:

- Baccalaureate degree from an accredited institution;
- A cumulative grade point average of 3.0 (4.0 = A scale) or the equivalent in the last four semesters or approximately 60 semester credits of his/her undergraduate record and in all post-baccalaureate work;
- Evidence of eligibility for an Initial Basic License to teach;
- Three letters of recommendation from references who have observed or supervised the applicant's performance and are able to comment on the quality of the applicant's teaching experience, ability to pursue graduate study, and general character.

Foreign applicants must also provide verification of financial status. An official TOEFL score report might be required.

### Graduation Requirements

Students must complete all program courses, including the elective content-area course. To remain eligible for continuance in the M.Ed. and to be awarded the graduate degree, students must maintain progress toward completion of the program and must have a B average (3.0 GPA) for all courses completed in the program.

Each student must complete a culminating experience; this is an independent project that integrates what he or she has learned during the five semesters of the program. The project must be completed independently of any course and will not be associated with program course credit.



*photo courtesy of UH Hilo Graphic Services*

### Faculty Advising and Guidance

Each student will be assigned a faculty advisor. In addition, a committee comprised of three faculty members will meet with individual students to review, approve, and provide guidance for the culminating project. The faculty committee will be comprised of three faculty drawn from the graduate and associate graduate faculty of the department; one of the three might be a faculty member from the student's content area who has graduate or associate graduate faculty status.

### Cohort and Other Requirements

Students enroll in the M.Ed. program as members of a cohort which will complete all requirements in five semesters and two summers. So that students can continue to teach while pursuing the degree, courses are offered during the evening and/or on Saturdays.

Typically, all students in a cohort will take courses together and in the sequence prescribed by the department.

New cohorts will be established based on student demand.

### Coursework

Courses in the M.Ed. program are taught by those Education faculty who are members of the University of Hawai'i Graduate Faculty. The exception to this is one elective 400-level course, which students will choose from their own content areas.

- ED 600 (3) Education of Ethnic Groups in Hawai'i
- ED 602 (3) Technology in Education
- ED 608A,B,C (1,1,1) Fundamentals of Research in Education
- ED 610 (3) Foundations of Education
- ED 611 (3) Advanced Educational Psychology
- ED 616A,B,C (1,1,1) Assessment and Evaluation in Education
- ED 620 (3) Individual Differences
- ED 622 (3) School Curriculum
- ED 625 (3) Seminar in Teaching
- ED 635 (3) Advanced Instructional Strategies

# TUITION AND FEES

(SUBJECT TO CHANGE)

Tuition and fees are charged according to the number of semester hours carried by the classified student; for the unclassified student, lower division tuition will be charged for courses numbered between 001 and 299V upper division tuition will be charged for courses numbered between 300 and 499V, and graduate division tuition will be charged for courses numbered 500 or higher. Auditors pay the same tuition as students enrolled for credit.

All tuition and fee charges at the University of Hawai'i campuses are subject to change in accordance with requirements of State law and/or action by the University of Hawai'i Board of Regents or Administration.

## Tuition

2001-2002

### Full-time lower-division students, per semester

Resident .....	\$ 756.00
Nonresident .....	3,564.00

### Part-time lower-division students, per credit hour

Resident .....	\$ 63.00
Nonresident .....	297.00

### Full-time upper-division students, per semester

Resident .....	\$ 1,152.00
Nonresident .....	3,936.00

### Part-time upper-division students, per credit hour

Resident .....	\$ 96.00
Nonresident .....	328.00

### Full-time graduate division students, per semester

Resident .....	\$1,884.00
Nonresident .....	4,584.00

### Part-time graduate division students, per credit hour

Resident .....	\$157.00
Nonresident .....	382.00

## Fees

### Student Activity Fee-per semester:

Students will be assessed a student activity fee of \$1.00 per semester hour up to a maximum of \$10.00 per semester.

### Student Government Fee-per semester:

Students will be assessed a student government fee of \$1.00 per semester hour up to a maximum of \$10.00 per semester.

### Publication Fee-per semester:

Students will be assessed a publications fee of \$5.00 per semester.

### Other Registration Fees:

Late Registration Fee .....	\$50.00
Change of Registration After the Initial Registration .....	5.00

### Application Fee:

A \$25 fee is required for all applicants. This fee is not refundable, not transferable to another semester, and is required each time an application is submitted.

### Special Fees and Charges:

Graduation Application Fee .....	\$15.00
Transcript of Record .....	3.00
Rush Transcript .....	10.00
Institutional Credit by Examination .....	15.00
Replacement of laboratory equipment .....	Cost of Item (items broken or lost)

## Returned Checks

Checks tendered to the University of Hawai'i or any department therein, and returned to the maker's bank for any reason will result in a \$15.00 charge and a "HOLD" will be placed in your account. DO NOT STOP PAYMENT on checks. A stop payment on a check is considered a returned check and is not acknowledged as an official drop from courses or withdrawal from the University.

Interest on the \$15.00 returned check charge will be assessed at the rate of \$0.10 a month or fraction of a month, for the period beginning the first calendar day after the date of modification from the bank that the check is dishonored, to the date paid.

## Payments

For registration to be official, all tuition and fees must be paid at time of registration.

## Partial Advance Tuition Payment

All new, transfer, and returning classified students are required to make a partial advance tuition payment of \$60.00. Fellowship recipients are not exempt from this payment, if applicable. This partial advance tuition payment is applied at registration time toward tuition for that semester. The payment is nonrefundable and nontransferable if the student does not register. Continuing classified students are not required to make the partial advance tuition payment.

## Tuition and Fees Refund Policy

Percent Refund	Tuition	Fees
100%	If complete withdrawal is made on or before the last day of regular registration.	
80%	If complete withdrawal, change in status or change from one tuition rate to another tuition rate is made within the first two weeks of instruction.	
50%		If complete withdrawal is made within the third and fourth week of instruction.
40%	If complete withdrawal, change in status or a change from one tuition rate to another tuition rate is made within the third and fourth week of instruction.	
0%	If complete withdrawal, change in status or a change from one tuition rate to another tuition rate is made after the fourth week of instruction.	If complete withdrawal is made after the fourth week of instruction.

# COLLEGE OF AGRICULTURE, FORESTRY AND NATURAL RESOURCE MANAGEMENT (CAFNRM)

FOR INFORMATION, PLEASE CALL:

**Office of the Dean**

(808) 974-7393  
(808) 974-7674 FAX  
Business Office 21

OR

**UH Hilo Admissions Office**

(808) 974-7414  
(808) 974-7691 FAX  
e-mail: [uhhadm@hawaii.edu](mailto:uhhadm@hawaii.edu)  
Office of Student Affairs

## Purpose

The purpose of the College of Agriculture, Forestry and Natural Resource Management (CAFNRM) is to provide quality education to prepare individuals for careers in agriculture or further graduate study. The program blends comprehensive classroom instruction with practical, technology-based education through the use of the University of Hawai'i at Hilo Agricultural Farm Laboratory, and graduates skilled agriculturalists who can further develop and promote agriculture in the State of Hawai'i.

The College offers the Bachelor of Science degree (BS) in seven areas of specialization: Agribusiness, Agroecology and Environmental Quality, Animal Science, Aquaculture, Crop Protection, General Agriculture, and Tropical Horticulture. To provide a well-balanced education, a good portion of a typical curriculum consists of College of Arts and Sciences courses in addition to CAFNRM courses. An agriculture building provides laboratories for courses in horticulture, plant tissue culture, animal science, entomology, plant pathology, plant physiology, soil science, agronomy, aquaculture, crop protection, and agribusiness. Students can also utilize the laboratories and campus greenhouses for special projects in directed reading and research courses.

A unique feature of the College is the University of Hawai'i at Hilo Agricultural Farm Laboratory. On 110 acres of land, students can experience practical learning in various enterprises such as: anthuriums, ornamental foliage, hydroponics, floriculture plants, orchids, forestry, vegetables, beef, horses, sheep, swine, goats, poultry, beekeeping, macadamia, bananas, guava, and aquaculture. Because direct application of newly gained knowledge is an integral part of the college's educational goals, many laboratories and courses are based on the farm. Hilo's location in the center of a large farming community also offers opportunities for field trips to many diversified agricultural and aquaculture enterprises.

**Agribusiness:** Students in the Agribusiness curriculum receive a strong background in agriculture and agribusiness, a combination that is in demand for today's agriculture. Graduates in Agribusiness can anticipate careers in an expanding and changing agriculture or in businesses serving agriculture. As more food is produced in increasingly varied forms there is a requirement for more processing, distribution, and other marketing functions and facilities. Entrepreneurs in agriculture require more advisory, informational and educational services. Thus, agribusiness and government agencies are hiring increasing numbers of young men and women who have both agricultural and agribusiness training.

**Agroecology and Environmental Quality:** The Agroecology and Environmental Quality curriculum is designed for students interested in sustaining agrarian and surrounding ecosystems through more efficient management of land, biota, and water. As earth's population increases, demand will escalate for clean food and water. These activities, in combination with heightened energy requirements, will increase stress on our natural resources, such

as soils, surface water, and ground water. Concurrent increased public concern about the long-term sustainability of our food production system will spur the development of more effective and safe cropping, livestock, fertilizer, pest control, and farm waste management practices. Low-input alternative farming methods that emphasize nutrient recycling and "environmentally friendly" production practices will be given special consideration. Students who complete their curriculum will be prepared to meet challenges and can anticipate career opportunities in environmental regulatory agencies, conservation, farm service agencies, farm management, commercial laboratories, consulting, and graduate studies.

**Animal Science:** The undergraduate Animal Science program at the University of Hawai'i at Hilo has existed since 1975. In 1990, the Animal Science Pre-Veterinary and Production curriculums were developed. The Production Curriculum was modified in 2000 to place more emphasis on sustainable livestock production. Thus, the name of this new program is the Sustainable Livestock Production Curriculum. Both animal science curriculums are in the College of Agriculture, Forestry & Natural Resource Management (CAFNRM). The College emphasizes small class size to allow for more faculty-student interaction and individual attention. In both curriculums students take a wide variety of Animal Science courses. Animal Science courses integrate genetics, health, housing, management, nutrition, physiology, reproduction, and livestock evaluation. To complement classroom instruction the College maintains cattle, horses, goats, sheep, swine, and poultry on the 110-acre College farm. The College farm is developing an equestrian center which will have a covered arena, horse quarters and pastures. A limited number of students may board horses at the farm. The animals are used during lab periods to provide hands-on experience for students to help translate classroom instruction into real life situations. Due to the mild climate in Hawaii, it is possible to work outside with livestock in labs throughout the year. To gain additional hands-on experience, some students work at the College farm.

**Pre-Veterinary Curriculum:** The Pre-Veterinary curriculum provides students with a well rounded educational background in animal science, humanities, and natural sciences to help prepare them for post-graduate studies in Veterinary Medicine or Animal Science. Animal Science Pre-Veterinary students are required to take many of the same courses taken by Biology students. Three Animal Science courses are cross-listed as Biology courses. Because of these factors, it is possible for Animal Science Pre-Veterinary students to receive a B.S. in Agriculture and a B.S. in Biology. Another feature of this program is that it meets the entrance course requirements of many Veterinary Colleges and graduate Animal Science programs. Students that enter these post-graduate programs are pursuing degrees in Veterinary Medicine (D.V.M.) or Animal Science (M.S., Ph.D.). Former UH Hilo Animal Science students have studied Veterinary Medicine at Colorado State University, Iowa State University, Kansas State University, Oklahoma State University, Oregon State University, and Washington State University. With a D.V.M. degree, a wide range of employment opportunities exist such as private veterinary practice, representative for drug and pharmaceutical companies, university teaching and research, federal inspection, governmental research, animal care, and state positions. After completing a M.S. or Ph.D. degree in Animal Science, persons can take positions as geneticists, meat scientists, nutritionists, researchers, teachers, technicians, or extension livestock agents.

**Sustainable Livestock Production Curriculum:** This curriculum provides students with a good background in Animal Science, Agriculture and General Education courses so they will be prepared for careers in or related to livestock production. In this program students receive a Bachelors of Science in Agriculture with specialization in Animal Science. This curriculum helps to prepare students to work with livestock on farms and ranches or to obtain positions in the livestock industry or related fields.

Former Animal Science students have taken positions at livestock farms, dairies, ranches, equestrian centers, experiment stations, quarantine stations, veterinary clinics, and zoos. Employment opportunities also exist with governmental agencies. Positions also exist with companies that sell feeds, food products, livestock products and supplies, or buy livestock. Other positions exist with breed organizations and livestock publications. Laboratory support positions also exist.

**Aquaculture:** The aquaculture program produces educated aquaculturists needed by the growing aquaculture industry in Hawai'i and throughout the world. Aquaculture graduates from UH Hilo can obtain employment immediately after graduation with private firms and various government agencies as aquaculture biologists/technicians. Also, because of the broad emphasis of the program on both biology and agriculture technology, they have many of the skills required to start their own aquaculture enterprises. If students desire a career in research or teaching, the aquaculture program is designed to enable the student to be qualified for admittance to graduate programs in aquaculture and fisheries.

The area in close proximity to the UH Hilo campus has unique potential for aquaculture education. The availability of warm freshwater from wells, warm seawater and cold seawater (from deep sea pipelines) allows the culture of most aquaculture species including trout, salmon, carp, shrimp, tropical fish, various seaweeds, and shellfish. A freshwater aquaculture facility at the UH Hilo Agricultural Farm Laboratory is used for both teaching and research. A coastal facility is under development.

**Crop Protection:** The Crop Protection student learns to manage a wide variety of plant problems which are detrimental to agricultural production. Since plant problems come from many sources, the Crop Protection curriculum draws its courses from the areas of Entomology, Plant Pathology, Weed Science, and Horticulture. In addition, the student is required to take "production" agriculture courses as well as biology courses, making the Crop

Protection curriculum truly interdisciplinary in scope. The B.S. degree in Agriculture with emphasis in Crop Protection prepares the student for jobs with private enterprise or government agencies concerned with plant pest control, crop production, or environmental protection. In addition, the Crop Protection curriculum has enough flexibility to allow the student to meet the requirements of most graduate schools and thus further his or her education by pursuing a graduate degree.

**General Agriculture:** The General Agriculture specialization is designed to provide an opportunity for students and anyone interested in agriculture or an agriculture related field to have access to selected courses or topics in their area of interest. The curriculum is structured to offer a well-rounded undergraduate education in the basic and applied sciences of agriculture and related fields through quality "hands-on" training. Students graduating with a B.S. in Agriculture specializing in General Agriculture have opportunities to pursue careers in various areas of agriculture and agribusiness or work toward advanced degrees in agriculture or related fields.

**Tropical Horticulture:** The Tropical Horticulture curriculum is designed to provide students with a well rounded background in horticultural science with special emphasis on the production of tropical and subtropical crops. The program offers a wide selection of courses, each providing the student with both the theoretical and the hands-on approach to learning the subject matter. The program also offers the student elective courses which utilize state-of-the-art technology in areas such as aseptic micro-propagation (plant tissue culture) and hydroponics. In addition to these specialized courses, the Tropical Horticulture curriculum is based on a solid core of traditional horticultural courses where students learn basic horticultural techniques such as grafting, pruning, pest management, and cultivating crops that are of economic interest in the tropics. Graduates from this program are highly skilled in managing, producing and marketing of horticultural crops.

## Agriculture Minor

The valuable learning experiences gained through agriculture studies are not limited to Agriculture majors. Non-agriculture majors at UH Hilo can obtain a minor in Agriculture by completing a minimum of 15 hours of coursework (GPA 2.5 or better) in the College of Agriculture:

1. Three of the following (9 hours): Hort 262, AnSc 141, Aqua 262, AgEn 231, Soil 304.
2. One of the following (3 hours): AnSc 342/351/353/354/355, Hort 266/350/351/352/354/460, Agro 310, Aqua 350/351, AgBu 320.
3. Agriculture elective (3 hours), one of the following: any 200, 300, or 400 level courses.

## Tropical Forestry Certificate

The Certificate in Tropical Forestry is an applied, hands-on program designed to prepare and expose individuals to tropical and Hawai'i forestry. The program covers a wide range of topics covering the multiple use of tropical forests including natural resources, ecology, silviculture, dendrology, mensuration, recreation, and product utilization. Students in the Tropical Forestry Certificate program must complete the prescribed courses (18 credits) with a cumulative grade average of 2.0 or better (4.0 system). Students in this program should have completed Hort 262 (Principles of Horticulture) or Biol 153 (General Botany) and Math 121 (Intro to Statistics and Probability or equivalent).

### NOTE:

The University of Hawai'i at Hilo will offer tropical forestry courses through the 2001-2002 academic year, in order for current matriculating students in the Tropical Forestry Program to complete the certificate. Students who did not declare themselves as Tropical Forestry Certificate students prior to May 15, 2000, and who wish to enroll in Tropical Forestry courses should do so; Tropical Forestry courses to complete a certificate may not be offered after May 2002.

Course descriptions for the Certificate in Tropical Forestry program are as follows:

**FOR 202 Tropical Forestry & Natural Resources (2 lec., 1 lab) (3) (Y)**  
Development of forestry and agroforestry, forest biology, soils, ecology, conservation, management, and products. Field trips to various forestry operations.



*photo courtesy of UH Hilo CAFNRM*



**FOR 203 Tropical Forestry Dendrology (2 lec., 1 lab) (3) (Y)**

Description, identification and location of forest tree and shrub species in Hawai'i. Both native and exotic species will be studied. Emphasis will be on species that have commercial value or potential, but some weedy species will be included. Field trips to various forest types within the island.

**FOR 301 Forest Mensuration (2 lec., 1 lab) (3) (Y)**

Practical techniques in mapping and measuring forest land and inventorying forest resources. Principles of log, tree, stand, and growth measurements; instrumentation and simulation models.

**FOR 350 Tropical Silviculture (2 lec., 1 lab) (3) (Y)**

Sustainable methods and techniques for manipulation of tropical forest ecosystems to meet management objective; artificial and natural regeneration, site preparation and harvest methods, soil and water resources management; silviculture and the gene pool; intermediate stand tending and maintenance of forest health.

**FOR 380 Properties and Utilization of Tropical Woods (2 lec., 1 lab) (3) (Y)**

Physical and mechanical properties of tropical woods as they relate to product application; theory and practice of drying lumber, veneer, chips, particles, and fibers; woodworking, dimensional stabilization, biodeterioration, machining and adhesive/laminating technologies; composites and strength considerations.

**FOR 410 Physiological Ecology of Tropical Forests (2 lec., 1 lab) (3) (Y)**

Chemical, physical and physiological processes that determine how tropical trees and forests function; emphasis on carbon, nitrogen and phosphorus budgets; productivity, consequences of forest management and global climate change.



## Special Programs

In addition to its academic core of course offerings, the College of Agriculture, Forestry and Natural Resource Management has a number of special programs which offer special opportunities to students.

**Student-Managed Farm Enterprise Projects:** A unique feature of the college is the student-managed farm enterprise project program. Students select, plan and complete a management/production project under faculty supervision. If the student's project is successful, some income can be gained along with the valuable first-hand experience in production and agribusiness.

**Agriculture Development Program:** The College's Agriculture Development Program allows individuals who have the desire to attain a bachelor of science in agriculture the opportunity to do so even though they lack the proper preparation for standard admission. These students are given the opportunity to take advantage of a comprehensive set of support courses, tutorial assistance, and counseling in order to enhance their success in attaining the bachelor's degree.

A student accepted into the Agriculture Development Program is given a comprehensive set of examinations to assess his/her level of college preparation. The courses the student is then advised to take are designed to reflect the student's strengths as well as to develop basic skills.

Information on how to apply to this program is available from the offices of the Dean of the College of Agriculture, Forestry and Natural Resource Management, (808) 974-7393, or the Admissions Office, Student Services 101; (808) 974-7414.



*photos courtesy of UH Hilo CAFNRM*

# COLLEGE OF AGRICULTURE COURSES

**Office:** B0-21, (808) 974-7393

**Professors:**

Lorna H. Arita-Tsutsumi, Ph.D.  
 Jack K. Fujii, Ph.D.  
 Sheldon C. Furutani, Ph.D.  
 Kevin D. Hopkins, Ph.D.  
 William S. Sakai, Ph.D.  
 Sabry A. Shehata, Ph.D.  
 Michael J. Tanabe, Ph.D.  
 Marcel Tsang, Ph.D.

**Associate Professors:**

Erik R. Cleveland, Ph.D.  
 Bruce W. Mathews, Ph.D.  
 Michael H. Shintaku, Ph.D.

**Assistant Professors:**

David B. Almond, D.V.M.  
 Randall S. Senock, Ph.D.

**Note:** Shoes are required in all farm and field laboratory classes.

**Course listing codes:** (S) = every semester  
 (Y) = yearly  
 (AY) = alternate years  
 (IO) = infrequently offered

## AGRICULTURE (Ag)

### General Agriculture Specialty (123 semester hours)

#### A. General Education (40 semester hours)

#### B. Major Requirements (37 hours)

1. General Agriculture (18 semester hours)  
 AgBu 110, AgEc 330, AgEn 231, AnSc 141\*, Ento 304, PPat 301
2. Agriculture Foundation (19 semester hours)  
 Ag 299, Ag 375/AnSc 445, Ag 497, Hort 262\*, Soil 304, one plant production course (Hort 263\*, 266\*, 351, 352, 354, or 403), one animal production course (AnSc 342, 351, 353, 354, 355)

#### C. Supplemental Requirements (33 semester hours)

1. Natural Sciences (21 semester hours)  
 Biol 150\*, 150L\*, 153\*, 153L\*, Chem 124\*, 124L\*, 125\*, 125L\*, Math course numbered 104\* or higher
2. Other Supplemental Requirements (12 semester hours)  
 Acc 250/AgEc 221, AgEc 201\*/Econ 130\*, Com 151\*, Eng 309

#### D. Electives

At least 18 hours must be Agriculture courses, 12 of which must be upper-division Agriculture courses. The total depends on the number of major and supplemental requirements taken as General Education requirements.

\* Can be used for General Education

#### 100 Agriculture Orientation (3) (Y)

Introduction to commercial agriculture in Hawai'i. Field trips to visit farms; guest speakers to discuss agriculture extension, research, teaching, and farm loan programs that support commercial agriculture.

#### 194 Focus on Agriculture (1) (S)

Topics related to diversified agriculture in Hawai'i chosen by the instructor. Course content will vary. May be repeated. Course is televised live, statewide, via the Interactive Television System and local cable community service channel.

#### 195 Special Topics in Agriculture (1-4) (S)

Lower division topics chosen by instructor. Course content will vary. May be repeated, provided that a different topic is studied.

#### 199 Directed Reading (1-3) (S)

Permission of instructor and statement of planned reading required.

#### 230 Sustainable Agriculture (2 lec., 1 lab) (3) (Y)

Evaluation of conventional and alternative farming methods in the U.S. Polynesia, Southeast Asia, Africa and Latin America from a long-term perspective, analysis of the effects of those practices on environmental quality, agrosystems, and food security. Consideration of conflicting values and resolution.

#### 290 Student-Managed Farm Enterprise Project (1-3) (IO)

Selection, planning, and completion of a production/management/marketing project under faculty supervision. Project participation is voluntary and subject to approval. Students must maintain complete production and financial records. (Repeatable)

#### 299 Directed Work Experience Program (3) (S)

Agricultural practice in individual and team projects on independent farms or agricultural employment under supervision and direction during summer vacation or on a part-time basis during regular school period. Permission of instructor required. Only for CAFNRM students and offered only on a CR/NC basis. Credits earned not included in maximum allowed.

#### 304 Applied Microbiology (2 lec., 1 lab) (3) (S)

An overview of the production aspects of microbiology, including fermentation biology, mushroom cultivation, and modern biotechnology.

#### 312 Agricultural Geography and World Food Problems (3) (IO)

Different types of agriculture, their location, and the cultural and environmental constraints operating to produce the resultant patterns. World food and hunger. Pre: Geog 101 or 103, or consent of instructor. (Equivalent to Geog 312)

#### 375 Introduction to Genetic Analysis (2 lec., 1 lab) (3) (Y)

An introduction to the principles and methods of genetic studies. The principles are first covered, especially with regard to animal and crop improvement. This is followed by an overview of the structure and function of DNA, an introduction to the tools and applications for molecular biology, and finally by an overview of the effects of genes on populations.

#### 395 Special Topics in Agriculture (1-4) (S)

Advanced topics chosen by instructor. Course content will vary. May be repeated, provided that a different topic is studied. Pre: junior standing or consent of instructor.

#### 399 Directed Research (1-3) (S)

Permission of instructor and statement of planned research required.

#### 497 Senior Seminar (1) (Y)

Guided research into current problems. Topics may vary according to interest of students and instructor. CR/NC only.



## AGRIBUSINESS (AgBu)

### Agribusiness Specialty

#### A. General Education (40 semester hours)

#### B. Major Requirements (60 semester hours)

1. Ag economics /Agri-business/Economics (24 semester hours)  
AgBus 299, AgEc 330, AgBus 320/ AgBus 221, AgEc 322/ AgBus 340, Econ 130\*/Econ 300, Econ 131\*/Econ 301, (2 courses Econ/AgEc/AgBus/Econ)
2. Agriculture Foundation (15 semester hours)  
Ag Production courses (5 courses in at least two different disciplines)
3. Business Foundation (15 semester hours)  
Acc 250, Acc 251, Mgt 240, Mgt 300 and Mkt 310
4. Math Foundation (6 semester hours)  
Math 205\*, Math 206/114/115/121\*

#### C. Supplemental Requirements (21 semester hours)

Business and Agriculture (21 semester hours)

#### D. Electives

Depends upon number of required major and supplemental requirements taken as General Education Requirements.

#### 110 Introduction to Microcomputing for Agriculture (2 lec., 1 lab) (3) (S)

Acquaints students with the microcomputer in agricultural applications by using and customizing commercial software, to understand the operation of the microprocessor and its peripherals, and to provide hands-on experience in utilizing some of the most common word processing, spreadsheet, presentations and database software and access to the Internet.

#### 120 Agricultural Business Field Study (1-3) (IO)

Agribusiness and agri-economic functions performed by specialized agricultural agencies with emphasis on physical operating patterns; field trips to production, marketing and finance firms; workshops with agribusiness managers.

#### 299 Agribusiness Internship/Work Experience (3) (S)

Internship with agribusiness firms in the areas of management, sales, food distribution. National Agri-Marketing Association activities may be used with advisor's approval.

#### 320 Agribusiness Management (3 lec.) (3) (Y)

Organization forms and management functions of agribusiness firms, management science principles, inventory control, operation research techniques, decision model, and human resources development as they are related to agribusiness firms.

#### 321 Agricultural Cooperatives Management (3 lec.) (3) (IO)

The nature and place of agricultural cooperatives in the nation with special emphasis on Hawai'i.

#### 340 Agri-Marketing Research (3 lec.) (3) (IO)

Primary marketing research including problem definition, hypothesis formulation, research design, data collection, and results analysis. Mechanics of writing technical reports and oral presentations. Pre: Econ 201 or AgEc 220 and junior standing.

## AGRICULTURAL ECONOMICS (AgEc)

#### 201 Agricultural Economics (3 lec.) (3) (S)

Introduction to agriculture and resource economics and agri-business with application to Hawaiian agriculture (Micro-economics).

#### 221 Agricultural Accounting and Records Analysis (2 lec., 1 lab) (3) (Y)

Introduces accounting theory and methods used to record and report

financial information for both the business and farm firm. Other topics include business organization, inventories, receivables and payables, depreciation, and computer applications.

#### 322 Marketing Agricultural Products (3 lec.) (3) (Y)

Acquaints the student with the economic organization and operation of the food and fiber sector of the U.S. and Hawaiian economy. In two general parts, one provides a treatment of agricultural price analysis; the second examines the marketing system for agricultural inputs, farm products, and processing and distribution activities with emphasis on cooperative marketing. Field trips to cooperative and other marketing firms. Future trading. Pre: introductory course in economics or agricultural economics.

#### 330 Farm Management (2 lec., 1 lab) (3) (Y)

Acquaints the student with both theoretical and applied aspects of farm management. Topics include farm planning, managerial control, and acquiring and managing resources. Emphasis on mainland but applied emphasis on Hawaiian farming systems. Stress on cost of production and cash flow budgets, capital investment, and linear programming. Computer applications. Pre: introductory course in economics or agricultural economics, Acc 250.

#### 380 Environmental Policy and Management of Hawaiian Natural Resources (3 lec.) (Y)

Provides the student with an understanding of economic growth, resource scarcity and policy, environmental degradation, economic policy, property right and income distribution, institutional framework, benefit cost analysis, and application of natural resource management of Hawai'i.

## AGRICULTURAL ENGINEERING (AgEn)

The courses and associated laboratories in Agricultural Engineering are designed to provide students with basic mechanical skills and engineering principles required to be successful in modern agricultural enterprises. Both the theoretical and applications aspects of engineering in agriculture are discussed. Laboratory sessions provide students with hands-on work in design and installation. Successful completion of agricultural engineering courses will give graduates an edge in the job market or in developing/managing their own enterprise.

**Note:** Suitable eye protection and shoes are required in all AgEn laboratory classes.

#### 231 Introduction to Agricultural Mechanization (2 lec., 1 lab) (3) (S)

Identification, proper use and maintenance of tools used in the shop and farm, plan reading, identification, selection and estimation of materials for agricultural projects. Principles of arc and oxy-acetylene welding, basic engineering concepts involved with layout and leveling, areas and heat flow, simple electrical wiring.

#### 232 Farm Tractor Operation (1 lab) (1) (IO)

Operation of agricultural tractors and allied machinery on the University Farm. Safety, maintenance, and field adjustments of tractors and implements. Limited enrollment. A valid driver's license.

#### 301 Farm Power (2 lec., 1 lab) (3) (AY)

Management and maintenance of power units used in agriculture. Principles of internal combustion engines. Shop and field practice in adjusting and operating internal combustion engines and associated field equipment. Pre: College Algebra. A valid driver's license is highly desirable.

#### 302 Farm Structures and Utilities (2 lec., 1 lab) (3) (AY)

Farmstead planning, materials, design, construction and maintenance, farm utilities, water-sewage systems and labor-saving conveniences. Pre: College Algebra and AgEn 231.

#### 305 Agriculture Mechanics Skills (1 lab) (1) (IO)

Design, construction, and evaluation of an agricultural project to be constructed in laboratory under faculty supervision. Pre: AgEn 231 or consent of instructor.

**400 Aquaculture Engineering (3 lec., 1 lab) (4) (Y)**

Principles of site selection, design and construction of aquaculture systems. Pre: Aqua 262. (Same as Mare 400)

**435 Irrigation Principles and Practices (2 lec., 1 lab) (3) (Y)**

Comprehensive study of basic irrigation principles and practices. Basic hydraulics, water supply, conveyance, and measurement. Plant-soil-water relationship, evapotranspiration, and scheduling. Planning and design of irrigation systems. Pumps. Pre: College Algebra or consent of instructor.

**AGRONOMY (Agro)****Agroecology and Environmental Quality Specialty****A. General Education (40 semester hours)****B. Major Requirements (43 semester hours)**

1. Environmental Foundation (18 hours)  
Ag 230\*, Agron 410, Ento 374, For 202 or For 350, Hort 481 and NRes 320
2. Agriculture Foundation (25 hours)  
Ag 299, Ag 375, Ag 497, AgBus 110, AnSc 141, Ento 304, Hort 262\*, PPat 301, Soil 304

**C. Supplemental Requirements (46 semester hours)**

1. Natural Sciences (31 hours)  
Biol 150\*, 150L\*, 153\*, 153L\*, 281\*, Chem 124\*, 124L\*, 125\*, 125L\*, 141\*, 141L\*, Math 121\*, Phys 106\*/170L\* or Phys 115\*
2. Other Supplemental Requirements (15 hours)  
Comu 151\*, Econ 130\* or AgEc 201\*, Econ 380, Eng 309, Pols 335 or AgEc 380

**D. Electives (0 to 16 hours)**

Depends upon number of required major and supplemental requirements taken as General Education requirements.

\* Can be used for General Education

Agronomy is the specialization of agriculture concerned with the theory and practice of field-crop (food, fiber, and feed) production and soil management. The principles learned in these courses are especially applicable to farm managers, seed, feed, and agrichemical dealers/private business, government extension agents, research technicians, and graduate school.

**310 Agronomic Crop Production in the Tropics (2 lec., 1 lab) (3) (IO)**

Current agricultural practices in production of food, feed, and fiber crops in the tropics. Pre: Hort 262 or consent of instructor.

**410 Soil-Plant-Herbivore Interrelations (2 lec., 1 lab) (3) (Y)**

The principles of plant competition and succession during the establishment and maintenance of herbaceous species and communities are related to soil, biotic, and microclimate factors and their interactions. Ecological and nutritional principles embodying plant and animal factors in the utilization of herbaceous plants by livestock are established. Research methodology in grassland systems also is presented. Pre: AnSc 141, Biol 153 or Hort 262, or consent of instructor.

**ANIMAL SCIENCE (AnSc)****Animal Science Specialty****Sustainable Livestock Production Option (123 semester hours total)****A. General Education (40 semester hours)****B. Major Requirements (67 semester hours)**

1. Animal Science Foundation (36 semester hours)  
AnSc 141\*, AnSc 244\*, AnSc 321, AnSc 350, AnSc 445, AnSc 450, AnScs 453, AnSc 454, AnSc 490.  
Select 3 of the following courses: AnSc 342, AnSc 351, AnSc 353, AnSc 354, AnSc 355.
2. Agriculture Foundation (31 semester hours)  
Ag 230\*, Ag 497, AgBu 110, AgEc 201\*, AgEc 221\*, AgEc 322/330, AgEn 231, Agro 410, Hort 262\*, Nres 320, Soil 304.

**C. Supplemental Requirements (27 semester hours)**

Biol 153\*, 153L\*, Biol 150\*, 150L\*, Chem 124\*, 124L\*, Chem 125\*, 125L\*, Comu 151\*, Eng 309, Math 121\*.

**D. Electives**

Depends upon number of required major and supplemental requirements taken as General Education requirements.

\* Can be used for General Education

**Pre-Veterinary Option (123 semester hours total)****A. General Education (40 semester hours)****B. Major Requirements (39 semester hours)**

1. AgBu 110, AnSc 141\*, AnSc 244\*, AnSc 321, AnSc 350, AnSc 445, AnSc 450, AnSc 453, AnSc 454, AnSc 490.
2. Select 3 of the following courses: AnSc 342, AnSc 351, AnSc 353, AnSc 354, AnSc 355.

**C. Supplemental Requirements (55-57 semester hours)**

Biol 101\*, 101L\*/Biol 153\*, 153L\*; Biol 150\*, 150L\*; Biol 275\*, 275L\*, Biol 410, Chem 124\*, 124L\*; Chem 125\*, 125L\*; Chem 241\*, 241L\*; Chem 242\*, 242L\*; Comu 151\*, Eng 309; Math104\*/104F\*/104G\*/115\*/205\*/206\*; Math 121\*/Biol 380/Psy 213\*; Phys 106\*, 170L\*; Phys 107\*, 171L\*.

**D. Electives**

Depends upon number of required major and supplemental requirements taken as General Education requirements.

\* Can be used for General Education

Animal Science students can choose either the Pre-Veterinary or Sustainable Livestock Production Option. Students enrolled in either curriculum can receive a Bachelor of Science degree.

The Pre-Veterinary curriculum provides students with a well rounded educational background in animal science, humanities, and natural sciences to help prepare them for post-graduate studies in Veterinary Medicine or Animal Science. Another feature of this program is that it meets the entrance course requirements of many Veterinary Colleges and graduate Animal Science programs. Students that enter these post-graduate programs are pursuing degrees in Veterinary Medicine (D.V.M.) or Animal Science (M.S., Ph.D.). With a D.V.M. degree, a wide range of employment opportunities exist such as private veterinary practice, representative for drug and pharmaceutical companies, university teaching and research, federal inspection, governmental research, animal care, and state positions. After completing a M.S. or Ph.D. degree in Animal Science, persons can take positions as geneticists, meat scientists, nutritionists, researchers, teachers, technicians, or extension livestock agents.

The Animal Science Sustainable Livestock Production curriculum helps to prepare students to work with livestock on farms and ranches or to obtain positions in the livestock industry or related fields. Former Animal Science students have taken positions at livestock farms, dairies,

ranches, equestrian centers, experiment stations, quarantine stations, veterinary clinics, and zoos. Employment opportunities also exist with governmental agencies. Positions also exist with companies that sell feeds, food products, livestock products and supplies, or buy livestock. Other positions exist with breed organizations and livestock publications. Laboratory support positions also exist.

#### **141 Introduction to Animal Science (2 lec., 1 lab) (3) (S)**

Introduction to livestock, species and industry, breeding, behavior, growth, handling, environment, market classes, nutrition, reproduction, safety, terms, and issues related to livestock production.

#### **244 Fundamentals of Animal Nutrition (2 lec., 1 lab) (3) (Y)**

Comparative animal digestive systems and metabolism. Essential nutrients, their functions, mechanisms of action and interrelationships. Pre: AnSc 141, Chem 124 and 125, or consent of instructor. (Equivalent to Biol 254)

#### **321 Feeds and Feeding (2 lec., 1 lab) (3) (Y)**

Identification of common feedstuffs and their feeding value for animal production. Important concepts on feed processing, nutrient availability, diet formulation, and feeding management. The economics of feeding and purchasing feeds based on nutrient value. Pre: AnSc 141 and AnSc 244.

#### **342 Beef Cattle Production (2 lec., 1 lab) (3) (Y)**

Principles of efficient beef production including comparative breed evaluation, performance testing and selection, breeding, feeding management, health care, and marketing. Pre: AnSc 141 or consent of instructor.

#### **350 Anatomy and Physiology of Farm Animals (2 lec., 1 lab) (3) (Y)**

Structure and function of the animal body, including those of the horse, cow, sheep, and pig. A general study of anatomy, but emphasis placed on understanding the physiology of animal systems. Pre: AnSc 141, Chem 124 or consent of instructor. (Equivalent to Biol 323)

#### **351 Swine Production (2 lec., 1 lab) (3) (Y)**

Principles of efficient pork production including: breeds, crossbreeding, feeding, herd health, housing, management, selection and waste management. Pre: AnSc 141 or consent of instructor.

#### **353 Principles of Equine Sciences (2 lec., 1 lab) (3) (Y)**

Origin of species, breeds, feeding, lameness evaluation, reproductive considerations, and health issues of light horses. Limited enrollment. Pre: AnSc 141 or consent of instructor.

#### **354 Poultry Production (2 lec., 1 lab) (3) (IO)**

Principles of efficient poultry production including breeding, feeding, housing, and management of different types of poultry. Problems and practices associated with tropical environment emphasized. Pre: AnSc 141 or consent of instructor.

#### **355 Goat and Sheep Production (2 lec., 1 lab) (3) (Y)**

Principles of efficient goat and sheep production, including: breeds, crossbreeding, feeding, fiber, herd health, management, reproduction, and selection. Pre: AnSc 141 or consent of instructor.

#### **445 Animal Breeding and Genetics (2 lec, 1 lab) (3) (Y)**

Principles of Mendelian, population and quantitative genetics. Applications to improvement of livestock through selection methods and mating systems. Pre: AnSc 141. Biol 180 or Math 121 recommended.

#### **450 Reproduction of Farm Animals (2 lec, 1 lab) (3) (Y)**

Livestock reproductive anatomy and physiology. Pre: AnSc 141. AnSc 350 or Biol 323 recommended. (Equivalent to Biol 450)

#### **453-454 Animal Diseases and Parasites I,II (3-3) Yr. (Y)**

Principles and practices used for the prevention, diagnosis, and treatment of diseases and parasites in livestock. Courses do not have to be taken in sequential order. Pre: AnSc 141 or consent of instructor.

#### **490 Animal Science Internship (3) (Y) CR/NC**

Practical animal experience (employed or volunteer) at farms, ranches, veterinary clinics, zoos and other animal operations. Permission of the instructor is required before enrolling in ANSC 490. Pre: ANSC 141 and two of the following: ANSC 342, 351, 353, 354 and 355.

## **AQUACULTURE (Aqua)**

### **Aquaculture Specialty (123 semester hours total)**

#### **A. General Education (40 semester hours)**

#### **B. Major Requirements (59 semester hours)**

1. Aquatic Sciences (34 semester hours)  
AgEn 400, Aqua 262\*, 350, 351, 425, 475, Mare 171\*, 371, 372, 382, 484
2. Agriculture Foundation (25 semester hours)  
Ag 299, 297, Agbu 320, Ansc 141\*, 244\*, 321, 445, Hort 262\*, Hort 263\*

#### **C. Supplemental Requirements (30 hrs)**

1. Natural Sciences (21 semester hours)  
Chem 124\*, 124L\*, 125\*, 125L\*, 141\*, 141L\*, Math 121\*, Phys 106\*, 170L\*
2. Other Supplemental Requirements (9 semester hours)  
Comu 151\*, Econ 130\*, Eng 309

#### **D. Electives**

Depends upon number of required major and supplemental requirements taken as General Education requirements.

\* Can be used for General Education

The Aquaculture program in the College of Agriculture is designed to provide students with a broad understanding of the scientific bases, design and management of aquaculture systems. The program provides hands-on training in a wide-range of aquaculture activities and stresses the international nature of aquaculture. Approximately 40% of the required courses are in aquaculture and agriculture with the other 60% in natural sciences and humanities.

#### **262 Introduction to Aquaculture (2 lec., 1 lab) (3) (Y)**

Discussion of the biological, physicochemical and economic aspects of aquaculture, including a survey of the culture techniques of cultured species of finfish, shellfish, lower invertebrates and algae. Pre: Mare 171 or Biol 150 or Biol 153. (Same as Mare 262)

#### **350 Culture of Finfish (2 lec., 1 lab) (3) (Y)**

Principles and practices used for the culture of finfish. Pre: Aqua 262 or consent of instructor. (Same as Mare 352)

#### **351 Culture of Aquatic Plants and Invertebrates (2 lec., 1 lab) (3) (Y)**

Principles and practices used for the culture of aquatic plants and invertebrates. Pre: Aqua 262 or consent of instructor. (Same as Mare 351)

#### **425 Water Quality and Aquatic Productivity (2 lec., 1 lab) (3) (Y)**

Study of water quality and aquatic productivity as it relates to aquaculture and fisheries. Pre: Aqua 262 or Biol 281 or Mare 382; Chem 125. (Same as Biol 425 or Mare 420)

#### **475 Fish Population Dynamics (2 lec., 1 lab) (3) (Y)**

Study of growth, mortality, recruitment and yields in fish populations with emphasis on the similarities between natural and culture systems. Pre: Math 121 or Mare 250 and familiarity in spreadsheet usage. Biol 281 or Mare 382 recommended. (Same as Biol 475 and Mare 475)

## ENTOMOLOGY (Ento)

There are a wide range of Entomology courses offered at the College of Agriculture. There are courses which provide students with basic knowledge on insects and their habitats, as well as specialized ones on control of insect pests. One area of special interest in Entomology is beekeeping which allows students to manage honeybee colonies, extract honey and other products from the hive, and build beekeeping equipment. All Entomology courses provide students with hands-on experience working with insects.

### 262 Introductory Beekeeping (2 lec., 1 lab) (3) (Y)

Biology, behavior, and management of honeybees for honey production. Limited enrollment. Consent of instructor.

### 304 General Entomology (2 lec., 1 lab) (3) (S)

Structure, classification and identification of insects. Pre: Biol 150 or 153 or consent of instructor. (Same as Biol 205)

### 350 Advanced Beekeeping (2 lec., 1 lab) (3) (Y)

Advanced beekeeping practices designed to improve hive quality such as queen rearing, artificial insemination, and requeening as well as the utilization of products from the hive. Limited enrollment. Pre: Ento 262 or consent of instructor.

### 361 Insect Morphology (2 lec., 1 lab) (3) (IO)

Comparative and gross morphology; homologies of structure; anatomy; development in representative groups. Pre: Ento 304 or consent of instructor.

### 362 Systematic Entomology (2 lec., 1 lab) (3) (IO)

Classification of insects; orders and families; use of taxonomic tools. Pre: Ento 361 or consent of instructor.

### 374 Insect Pest Control (2 lec., 1 lab) (3) (Y)

Destructive and beneficial insects; principles of cultural, mechanical, legislative, biological, and chemical control. Pre: Ento 304 or consent of instructor.

## FOOD SCIENCE (FdSc)

Food Science is the multidisciplinary study of foods involving various aspects of microbiology, nutrition, chemistry, and physics. Food Science contributions include improving the quality, safety, convenience and nutritional status of food. Specialties in the field of Food Science include biotechnology and processing techniques, food engineering, sensory evaluation, food packaging, food safety, nutrition, product development, quality assurance, and food regulations. Graduates are employed by government, industry, and academia.

### 201 Man's Food (2 lec., 1 lab) (3) (IO)

History and current food supply; man's role in production, preservation, processing, and consumption of food. Pre: one semester general chemistry or consent of instructor.

## FORESTRY (For)

### 202 Forestry and Natural Resources (2 lec., 1 lab) (3) (Y)

Development of forestry and agroforestry, forest biology, soils, ecology, conservation, management, and products. Field trips to various forestry operations. Pre: placement test equivalents.

### 203 Tropical Forest Dendrology (2 lec., 1 lab) (3) (IO)

Description, identification, and location of forest tree and shrub species in Hawai'i. Both native and non-native species will be learned. Emphasis will be on species that have commercial value or potential, but some weedy species will be included. Field trips to various parts of the island.

### 301 Forest Mensuration (2 lec., 1 lab) (3) (Y)

Practical techniques in mapping and measuring forest land and inventorying forest resources. Principles of log, tree, stand, and growth measurements; instrumentation and simulation models.

### 350 Tropical Silviculture (2 lec., 1 lab) (3) (Y)

Sustainable methods and techniques for manipulation of tropical forest ecosystems to meet management objective; artificial and natural regeneration, site preparation and harvest methods, soil and water resources management; silviculture and the gene pool; intermediate stand tending and maintenance of forest health.

### 380 Properties and Utilization of Tropical Woods (2 lec., 1 lab) (3) (Y)

Physical and mechanical properties of tropical woods as they relate to product application; theory and practice of drying lumber, veneer, chips, particles, and fibers; woodworking, dimensional stabilization, biodeterioration, machining and adhesive/laminating technologies; composites and strength considerations.

### 410 Physiological Ecology of Tropical Forests (2 lec., 1 lab) (3) (Y)

Chemical, physical, and physiological processes that determine how tropical trees and forests function; emphasis on carbon, nitrogen, and phosphorus budgets; productivity, consequences of forest management, and global climate change.

## HORTICULTURE (Hort)

### Tropical Horticulture Specialty (123 semester hours total)

#### A. General Education (40 semester hours)

#### B. Major Requirements (61 semester hours)

1. Tropical Horticulture (27-30 semester hours).
  - a. Hort 264\*, Hort 481, Pphy 310 (9 semester hours).
  - b. Select 6 from the following courses: (18-21 semester hours).  
Hort 263\*/266\*/350/351/352/354/360/403/450/460
2. Agriscience Foundation (25 semester hours).  
Ag 299, Ag 375, Ag 497, AgEn 231, Ansc 141\*, Ento 304, Hort 262\*, Ppat 301, Soil 304.

#### C. Supplemental Requirements (31-32 semester hours)

AgBu 110, Chem 125\*, 125L\*, Eng 309, Acc 250/AgEc 221, Biol 153\*, 153L\*, Chem 124\*, Chem 124L\*, Comu 151\*, Econ 130\*/AgEc 201\*, Math 104\* or higher.

#### D. General Electives

At least 15 hours must be Agriculture courses. The total depends on the number of major and supplemental requirements taken as General Education requirements.

\* Can be used for General Education

The Horticulture program at the College of Agriculture is designed to provide the student with the necessary skills and knowledge required for employment and postgraduate education. Hands-on participation is an integral part of each course and strengthens the students' ability to apply theory. Required and elective horticulture course requirements cover a wide range of topics such as nursery operation, tropical landscaping, vegetable crop production, tropical fruit production, and many more. Courses such as plant tissue culture, structure of tropical plants, weed science, and others will generally be accepted as graduate level courses. Additionally, students will broaden their experience through required and elective courses from other agriculture areas of specializations. Graduates from this program typically find employment as entrepreneurs, research associates, teachers, extension agents, grounds superintendents, agriculture products sales persons, plant quarantine inspectors, and agriculture technicians.

**262 Principles of Horticulture (2 lec., 1 lab) (3) (S)**

Introduction to the various divisions of horticulture and the relationship of plants to environment. Plant structure and function. Opportunity for observation and practice of various horticultural technologies. Students are required to participate in a garden project.

**263 Hydroponics (2 lec., 1 lab) (3) (Y)**

Introduction to circulating and non-circulating hydroponic methods. Students are required to participate in the construction and maintenance of a hydroponic system. Pre: Hort 262.

**264 Plant Propagation (2 lec., 1 lab) (3) (Y)**

Seminal propagation; vegetative propagation by cuttings, grafting, budding, layering, division and separation. Propagating systems and plant tissue culture. Pre: Eng 100.

**266 Nursery Management (3 lec., 1 lab) (4) (Y)**

Horticulture and management practices involved in the operation of wholesale nurseries in Hawai'i with emphasis on production of tropical foliage plants. Practical laboratories will include propagation, soil media, structures, irrigation, nutrition, environmental control, post-harvest handling, and marketing. Excursions to various nurseries. Pre: Hort 262 or consent of instructor.

**350 Tropical Landscape Horticulture (2 lec., 1 lab) (3) (Y)**

Identification of landscape plants; design, construction, installation, care and maintenance of landscapes. Limited enrollment. Pre: Hort 262 or Biol 153.

**351 Vegetable Crop Production (2 lec., 1 lab) (3) (Y)**

Vegetable technology and physiology, cultural methods, breeding and marketing. Pre: Hort 262 or consent of instructor.

**352 Tropical Fruit Production (2 lec., 1 lab) (3) (Y)**

History, botanical relationships, climatic relationships, culture, management, and marketing. Excursions to various fruit orchards. Pre: Hort 262 or consent of instructor.

**354 Floriculture and Ornamental Production (3 lec., 1 lab) (4) (Y)**

Cultural and management practices in production of cut flowers and flowering pot plants. Major Hawaiian and mainland flower crops are considered. Visits to anthurium and other enterprises. Pre: Hort 262 or consent of instructor.

**360 Orchid Culture (3 lec., 1 lab) (4) (Y)**

Systematics, anatomy, physiology, and breeding of orchids with emphasis on production of orchid plants and flowers. Practical laboratories will include culture from pollination to marketing and field trips to local orchid nurseries.

**403 Plant Tissue Culture (2 lec., 1 lab) (3) (S)**

The science and art of propagating plants by in vitro culture. Concepts in laboratory design, business considerations, disinfestation, media preparation, and culture techniques. Emphasis on practical application in the laboratory. Limited enrollment. Pre: Hort 262 and Chem 124; recommended: Hort 264.

**437 Structure of Tropical Plants (3 lec., 1 lab) (4) (AY)**

Plant structure in relation to cultural practices, functions, genetic factors and development. Pre: Biol 153. (Same as Biol 417)

**450 Advanced Plant Tissue Culture (2 lec., 1 lab) (3) (S)**

Provides the student with hands-on experience in plant tissue culture techniques. Evaluative and diagnostic skills will be emphasized. Students will design and test techniques most appropriate for tissue culturing plant(s) of interest. Limited enrollment. Repeatable for a maximum of 6 credit hours. Pre: Hort 403.

**451 Plant Improvement (2 lec., 1 lab) (3) (IO)**

Application of plant breeding techniques and methods of improving crops with special emphasis on Hawaiian plants.

**460 Turfgrass Management (2 lec., 1 lab) (3) (IO)**

The selection, propagation, establishment and maintenance of turfgrasses with special emphasis on warm season turfgrasses. Limited enrollment. Pre: Hort 262.

**471 Post Harvest Handling (2 lec., 1 lab) (3) (IO)**

Methods of handling, storing, and shipping of fresh horticultural commodities with emphasis on Hawaiian fruits, vegetables, and ornamental plants. Pre: Hort 262 and Chem 124.

**481 Weed Science (2 lec., 1 lab) (3) (Y)**

Classification, identification, and adaptation of weeds. Principles of weed control, including properties, use, and action of herbicides. Pre: Hort 262 or Biol 153 and one year of chemistry.

**NATURAL RESOURCES (NRes)****320 Aquatic Pollution and Environmental Quality (2 lec., 1 lab) (3) (Y)**

Causes, consequences, and corrective measures for pollution of freshwater and marine systems by agriculture, industrial, urban, and recreational activities. Pollutant transport, soil erosion control, and treatment and utilization of bio-wastes. Scientific, legal, and socio-economic aspects of human activities on the quality of coastal environments will be considered. Pre: Chem 124 or consent of instructor.

**PLANT PATHOLOGY (PPat)**

The College of Agriculture offers one general and two advanced courses in plant pathology. The general course, Tropical Plant Pathology, covers a broad range of subjects at the introductory level. These include study of the living entities that cause plant disease, the mechanisms by which they produce disease, the interactions between pathogens and host, and the methods of managing plant diseases.

The advanced course, Plant Disease Diagnosis, trains the student to recognize the symptoms of many plant diseases and to apply appropriate diagnostic techniques. Plant Disease Control offers in-depth coverage of epidemiology and the rational selection of appropriate control measures.

Plant pathologists use the basic knowledge and techniques of botany, mycology, bacteriology, virology, nematology, plant anatomy, plant physiology, biochemistry, horticulture, tissue culture, soil science, chemistry, physics, and more. It is essential that students wishing to pursue careers in plant pathology receive broad training in many sciences.

**301 Tropical Plant Pathology (2 lec., 1 lab) (3) (S)**

Principles of plant pathology, major diseases in the tropics caused by fungi, bacteria, nematodes, and viruses; their nature, diagnosis and control. Pre: Bio 153 or consent of instructor.



*photo courtesy of UH Hilo Graphic Services*

**405 Plant Disease Diagnosis (2 lec., 1 lab) (3) (Y)**

Practical skills in field and laboratory to determine the cause of a plant disease. Recognition of characteristic symptoms of diseased plants and signs of pathogens; use of confirming tests. Pre: PPat 301.

**412 Plant Disease Control (2 lec., 1 lab) (3) (Y)**

Methods and principles of plant disease control, including chemical and nonchemical means, based on epidemiology and the disease cycle. Formulation and application of control recommendations. Pre: PPat 301.

**PLANT PHYSIOLOGY (PPhy)****310 Plant Growth and Development (2 lec., 1 lab) (3) (Y)**

The chemistry and physiology of growth regulators and their involvement in plant growth and development. Experiments and demonstrations illustrating both basic and applied aspects of chemical growth regulation. Pre: Hort 262 or Biol 153 and one year of college chemistry.

**415 Plant Nutrition (2 lec., 1 lab) (3) (IO)**

Mineral nutrition of plants, symptoms of mineral deficiency, corrective measures, water relations and nitrogen cycle. Special attention will be given to the role of nutrients in essential physiological and behavioral process. Pre: Hort 262 or Biol 153 and one year of college chemistry.

**SOIL SCIENCE (Soil)**

Soil Science coursework provides students with an excellent background in the properties of soil and soil management. Emphasis is placed on the role soils play in environmental studies as well as agriculture. Soil Science courses help prepare students for a wide range of employment, including environmental consulting firms, soil and plant tissue testing labs, fertilizer and pesticide dealer/applications businesses, government and private research labs, farm management, private business, and graduate school.

**304 Tropical Soils (2 lec., 1 lab) (3) (S)**

Origin, development, properties, use and management of tropical soils; classification of Hawaiian soils. Pre: Chem 124 or consent of instructor.

**350 Soil Fertility and Nutrient Cycling (2 lec. 1 lab) (3) (IO)**

Nutrient availability in relation to chemical and physical properties of soil; fertility evaluation by plant response and soil tests; cycling of carbon, nitrogen, phosphorus, and sulfur. Pre: Chem 124 or consent of instructor. Soil 304 recommended.



*photo courtesy of UH Hilo CAFNRM*

**Crop Protection Specialty (123 semester hours total)****A. General Education (40 semester hours)****B. Major Requirements (40 semester hours)**

1. Crop Protection (21 semester hours)  
Ag 304, Ento 304, 374, Hort 481, PPat 301, 405, PPhy 310
2. Agriculture Foundation (19 semester hours)  
Ag 299, 375, 497, Hort 262\*, Soil 304, Two plant production courses (Hort 263\*, 266\*, 351, 352, 354, or 403).

**C. Supplemental Requirements (37 semester hours)**

1. Natural Sciences (30 semester hours)  
Biol 150\*, 150L\*, 153\*, 153L\*, 281\*, 281L\*, Chem 124\*, 124L\*, 125\*, 125L\*, Math 121\*, Math course numbered 104\* or higher, Phys 106\*, 170L\*
2. Other Supplemental Requirements (6 semester hours)  
Comu 151\*, Eng 309

**D. Electives**

At least 9 hours must be Agriculture courses, and the total number of hours available for electives depends on the number of major and supplemental requirements taken as General Education requirements

\* Can be used for General Education

# COLLEGE OF ARTS AND SCIENCES

FOR INFORMATION, PLEASE CALL:

## Office of the Dean

(808) 974-7300  
(808) 974-7690 FAX  
College Hall 1A  
OR

## UH Hilo Admissions Office

(808) 974-7414  
(808) 974-7691 FAX  
e-mail: [uhhadm@hawaii.edu](mailto:uhhadm@hawaii.edu)  
Office of Student Services

## Purpose

The purpose of the College of Arts and Sciences is to provide quality education in the liberal arts and sciences, as well as a select group of high quality professional and pre-professional programs. Therefore, the academic emphasis in the College of Arts and Sciences is on the traditional arts and sciences subjects, particularly those with special relevance to Hawai'i.

## Educational Philosophy

The College of Arts and Sciences offers students a diversified and quality liberal arts curriculum which combines a traditional nature with the flexibility to meet the needs of every student.

The purpose of this traditional, yet flexible, liberal arts curriculum is to provide students with an opportunity to achieve a common basis for intellectual discourse so that they will be prepared to meet the demands of both profession and citizenship. Accordingly, students in the College receive an education which enables them to:

1. Communicate in both the written and spoken media with precision and cogency;
2. Think critically and engage in reasoned discussions about complex issues;
3. Understand major historic and philosophical concepts, and scholarly, literary and artistic accomplishments of the past and present;
4. Comprehend the physical universe, our own and other societies, the mathematical and experimental methods of the natural sciences, and the qualitative and quantitative methods of the social sciences; and
5. Achieve a depth of understanding and competence in a specific field of knowledge.

## Instructional Methods

The College employs a wide variety of instructional methods in order to implement the educational philosophy stated above. Experimentation with new pedagogical techniques that show promise of being effective is encouraged. At the College students will encounter instruction in such forms as:

**Lectures** in both lower and upper division courses. Every effort is made to limit the size of classes to allow for student-teacher discourse and to minimize student anonymity in the classroom. Where appropriate, lecture classes are complemented by audio-visual techniques that enrich and enhance the learning process.

**Laboratory courses** which provide educational experience in the design, conduct, and analysis of research in real and simulated settings. These courses, which are usually adjuncts to lecture classes, also offer opportunities for the student to develop skills in observations, data collection, problem-solving, interpretation, and working effectively in small teams.

**Seminars**, which are an important part of the instructional process because they provide an opportunity for students to study in their major fields of interest at an advanced level and in small groups. Seminars are used primarily in upper division courses, but where appropriate, this format is also used in the lower division.

**Independent study and the senior thesis.** These provide an opportunity for students to pursue knowledge in an area of particular interest under the supervision of an instructor. Such study is of a specialized nature, and, thus, it is limited to those students who have sufficient background in the field to benefit from independent inquiry.

**Field trips**, which introduce students to real situations outside of the classroom. These trips are particularly valuable in those areas of study that relate to the physical and cultural environment and the major research facilities on the island.

**Internships and practica**, whose importance to the instructional process comes from the bridge they form between the classroom and the outside world. These methods provide students with opportunities to apply the knowledge and techniques acquired in the classroom. By placing students in the community, they also serve as a means of strengthening the relationship between the College and the community.

## Academic Advising

The College of Arts and Sciences faculty provides academic advising to students. Academic advising includes: assisting students in clarifying, articulating, and attaining educational and life goals; facilitating each student's academic adjustment to the campus; educating students to assess academic progress and to develop appropriate educational plans; explaining and clarifying graduation requirements and academic rules and regulations; and serving as advocates and mediators for students.

Students who do not make a definite choice of major when entering the University are designated undeclared (or "General") majors. An assigned academic advisor assists these students with designing a program of studies to meet the General Education requirements and to provide them with information about possible major fields. Students accepted as declared majors are advised by faculty advisors who are specialists in their subjects, major requirements, related graduate programs and employment opportunities in their discipline. All students are strongly encouraged to seek advising assistance early in their university careers.

## Advising Center

The Advising Center provides support and guidance for all students in the area of General Education. In addition, comprehensive academic advising is available to students without a declared major. Professional and peer advisors can help match personal interests with offerings in the University curriculum, talk with students about implications of their college education, and help clarify academic and personal goals. For more information contact the general advising coordinator at (808) 974-7688, Campus Center 301.

## Evaluation of Students

The College of Arts and Sciences does not establish specific methods by which each instructor evaluates students, nor does the College require each instructor to meet identical criteria for such evaluation. The testing methods and standards for each course are determined by the instructor and are presented to the student in the syllabus for the course, which is provided to each class during the first days of each semester. Thus, methods and standards may vary from course to course and instructor to instructor. In the same spirit, the instructor is free to select the material and teach the course in such manner as he or she feels appropriate.



This philosophy, which is based on the principle of academic freedom, provides the student with a great variety of approaches from which to choose and exposes the student to an equally wide variety of teaching methods. However, common to these methods will be basic standards of essential fairness and impartiality of the evaluation process. Students are provided with recourse if they feel that these standards have not been met (see section on "Academic Grievances"). The College of Arts and Sciences is dedicated to providing the student with the best educational experience available, a dedication to which its many successful graduates can attest.

## Curricula

	M.Ed	BA	BBA	BS	Minor
Anthropology		*			*
Art		*			*
Astronomy				*	*
Biology		*		*	*
Business Administration			*		*
Chemistry		*			*
Communication		*			*
Computer Science				*	*
Earth and Space Science					*
Education	*				
Economics		*			*
English		*			*
Geography		*			*
Geology				*	*
History		*			*
Japanese Studies		*			*
Liberal Studies					
Administration of Justice		*			
Drama		*			
Recreational Management		*			
Religious Studies		*			
Individual Programs		*			
Linguistics		*			*
Marine Science		*			*
Mathematics		*			*
Music		*			*
Natural Science		*			
Nursing				*	
Philosophy		*			*
Physics		*			*
Political Science		*			*
Psychology		*			
Sociology		*			*

## Certificate Programs

The College of Arts and Sciences also offers certificate programs in nine academic subjects. Academic subject certificates are awarded to students who complete a prescribed academic program of study, and can be pursued either in addition to a baccalaureate degree program or as a program objective by itself. Information about specific program requirements may be obtained from the coordinator of each certificate program, and by referring to the department section in this catalog under which each certificate is offered.

Certificate	Catalog Section/Contact Number
Database Management	Computer Science/ (808) 974-7450
Environmental Studies	Geography/ (808) 974-7547
International Studies	
International Relations Option	Political Science/ (808) 974-7461
Tourism Option	Business Admin/ (808) 974-7400
Natural Sciences	Natural Sciences/ (808) 974-7361
Pacific Islands Studies	Pacific Islands Studies/ (808) 974-7472
Performing Arts	Performing Arts/ (808) 974-7479
Planning	Geography/ (808) 974-7552
Systems Modeling	Mathematics/ (808) 974-7383
Women's Studies	Women's Studies/ (808) 974-7374

The Marine Option Program (MOP) is another certificate program which awards the MOP certificate for successful completion of requirements. Refer to the following section on "Special Programs" for more information on this program.

In addition, the College of Arts and Sciences offers a post-baccalaureate teacher education program which leads to an initial teaching license issued by the Hawai'i State Department of Education. Also a Master of Education program is offered. Please contact the Education Department, (808) 974-7582 for more information.

The Departments of Geology and Astronomy jointly offer a minor in Earth and Space Science.

Classes at the College of Arts and Sciences frequently conduct field studies at various sites on Hawai'i Island. Archaeology students participate in investigating ancient Hawaiian sites and artifacts. Geology, biology, and geography students explore the island's volcanoes, marine environment and varied ecosystems. Numerous social science courses make use of the wide ethnic heritages represented on the island of Hawai'i. In the teaching of numerous subjects, the College seeks to make use of Hawai'i Island and its multi-cultural heritage and physical setting as a miniature continent in the midst of a tropical ocean.

Although the University of Hawai'i at Hilo is isolated from the tensions of the metropolitan environment, the College is not isolated from the world. Many courses at Hilo have a strong international accent. Both the Eastern and Western traditions are studied in courses in philosophy, religion, and history. Languages routinely taught at the college include French, Hawaiian, Japanese, Spanish, and, less frequently, Chinese.

Students in the College of Arts and Sciences have considerable liberty to design, in cooperation with their professors, individualized courses of instruction. Through the "99" sequence of courses, students may undertake directed reading and research. Furthermore, the Liberal Studies Program allows students to design their own majors by combining subjects of study which are demonstrably pertinent to their personal, educational, developmental or career objectives.

## Special Programs

In addition to its academic core of major subjects, the faculty of the College of Arts and Sciences has established a number of special programs which lend an attractive variety to the course of studies.

### The Honors Program

The UH Hilo Honors Program is designed to motivate, challenge, and enrich qualified students. It is open to all UH Hilo students. The Program is described under Honors in the departmental course listings which follow.

### Marine Option Program (MOP)

The Marine Option Program is a certificate program for undergraduate students at the University of Hawai'i. The program is designed to combine academic requirements with practical hands-on experience in different areas of marine interest.

MOP is aimed at assisting undergraduate students in acquiring knowledge in a marine field of the student's choice. MOP also serves as the UH Hilo center for marine-related activities ranging from scientific research to marine recreation. UH Hilo MOP trains students in sailing and seamanship and operates the 27-foot sailing yacht, *Na Naupaka*, and a fleet of smaller Laser and Flying Junior sailboats. In addition to sailing, students may learn fishing, snorkeling, kayaking and other marine recreational skills through MOP. Each year MOP students are trained in wildlife management by tagging green sea turtles in an on-going sea turtle research program carried out in cooperation with the National Marine Fisheries Service.

MOP also sponsors seminars, films, field trips and short-courses on various marine-related subjects. UH Hilo MOP coordinates the annual UH system-wide SCUBA research techniques course, QUEST (Quantitative Underwater Ecological Surveying Techniques), held in May at UH Hilo and on the Puako coral reef.

Each year MOP sponsors a Student Skill Project Symposium where selected students gain valuable experience by presenting the results of their projects. The site for the symposium rotates between UH campuses, being held on a different island each year.

All UH Hilo students are invited to take part in MOP-sponsored activities. MOP students may also choose to work toward a University of Hawai'i MOP Certificate by completing selected course work and a hands-on field project.

The goals of MOP are to:

- Provide an opportunity for undergraduate students in any disci-



pline to acquire a marine orientation during his/ her residency at UH Hilo;

- b. Add focus and relevance to the academic marine courses by aiding the students in acquiring a practical "marine skill";
- c. Help each MOP student, through counseling, discover and implement his/her individual marine-oriented educational career goals;
- d. Provide special seminars and interdisciplinary courses designed to acquaint the undergraduate student with the many facets of marine affairs; and
- e. Continue to provide opportunities and guidance to students who wish to contribute their talents by working toward solutions for social and environmental ocean-related problems.

The requirements to earn the MOP certificate include:

1. Survey class (3 credits): Biol/Mare 171 or Mare 201.
2. Interdisciplinary class (3 credits): Biol 425 (same as Aqua 425 and Mare 420); Econ 380, 410; Geog 101, 319, 326, 332, 335, 440; Geol 100; Haws 211, 213; Mare 282, 360, 434; or PolS 335.
3. Electives (6 credits): any approved marine-related course.

Total: 12 credits.

In addition, students pursuing the MOP certificate must complete a Skills Project or Internship.

For further information, contact the MOP Coordinator, Kalākaua Marine Education Center, Natural Sciences Division, College of Arts and Sciences; (808) 974-7544, (808) 974-7383.

### Pre-Law Studies

The study of law is a postgraduate professional program usually requiring three years of full-time study beyond completion of the bachelor's degree. No specific pre-law program or major is required for admission to law school, however many pre-law students major in political science, economics, history, philosophy, English, or business administration. Whatever the major, students intending to apply to law school would benefit from courses emphasizing critical analysis, writing, and interpretation. A number of law schools also suggest a course in accounting as well.

Law schools place a great deal of emphasis in their admissions decisions on the Law School Admission Test (LSAT) as well as grade point average, so students considering law school should start preparing no later than their junior year for the LSAT. It is highly recommended that such students acquire The Official LSAT PrepTest published by the Law School Admission Council or similar publications that help prepare the student for the examination and see the pre-law advisor early in their academic career. The pre-law advisor can assist students in selecting appropriate courses and majors, in preparing for the LSAT, and in selecting law schools.

The UH Hilo pre-law advisor is Dr. A. Didrick Castberg, Professor of Political Science, located in PB12-10.

### UH Hilo Space Grant College

The University of Hawai'i has been a NASA Space Grant College since 1990. The Hawai'i Space Grant College Program funds space science related activities on the Manoa and Hilo campuses of the University, with the Hilo campus in the flagship role for undergraduate programs in astronomy, space, and related fields. With its close proximity to the astronomical observatories on the Island of Hawai'i, and its commitment to quality undergraduate education in a liberal arts environment, UH Hilo provides excellent opportunities for college students, teachers, pre-college students and the general public in the areas of astronomy and space science. Current programs at UH Hilo supported by the Hawai'i Space Grant College Program include:

**Space Grant Fellowship Program.** A fellowship program is administered in support of undergraduate students interested in space-related programs of study. The fellowships are typically for a period of one year, and provide a stipend of \$1,000 per semester, a full tuition waiver, and travel and supplies funding. Space Grant Fellows undertake research programs in collaboration with faculty mentors, and participate in a twice-yearly colloquium with Fellows from other campuses of the University of Hawai'i. Research programs undertaken by Fellows in the last two years have been in the areas of astronomy, biology, mathematics, physics and geography. Several projects have resulted in scientific publications.



photo by Nic Los Baños

**Astronomy for Gifted and Talented, Native Hawaiian Children.** The parent University of Hawaii Space Grant College supports the Na Pua No'eu Center's two-week course on traditional and contemporary astronomy for ethnic Hawaiian gifted and talented children in grades 9-12. The course, held on campus, with its international telescope center atop Mauna Kea, relates the use of astronomy by Polynesian navigators to the interests of contemporary astronomers.

College of Arts and Sciences courses and major programs are listed by academic discipline. Special notations used are:

- a. 101, 102 = a year's sequence in which 101 is not prerequisite for enrollment in 102.
- b. 101-102 = a year's sequence in which 101 is prerequisite for enrollment in 102.
- c. (3-3) Yr. = a year's sequence carrying 3 semester hours each semester.
- d. (Arr) = the number of semester hours is arranged by the instructor.

Certain number endings are reserved for particular types of courses. "94" courses are Special Topics Courses, "95" courses are seminars, "96" courses are internship courses, "97" and "98" courses are experimental courses offered only for one year on that basis ("97" is usually offered in the Fall and "98" in the Spring), and "99" courses are research and directed studies courses.

**Course listing codes:** (S) every semester  
(Y) yearly  
(AY) alternate years  
(IO) infrequently offered

# COLLEGE OF ARTS AND SCIENCES COURSES

## ANTHROPOLOGY (Anth)

**Office:** EKH 214A, (808) 974-7460

**Professors:**

Daniel E. Brown, Ph.D.  
Craig J. Severance, Ph.D.

**Associate Professor:**

Christopher A. Reichl, Ph.D.

**Assistant Professor:**

Peter R. Mills, Ph.D.

**Affiliated Professors:**

Sue Aki, MA  
Lynn Morrison, Ph.D.  
Lyn Wolforth, Ph.D.  
Charles Langlas, Ph.D.

The Anthropology program in the College of Arts and Sciences is designed to provide students with a broad, holistic, and scientific understanding of human culture and the human place in nature. Anthropology helps students gain a fuller understanding of human behavior through introductory and advanced courses in the subfields of archeology, cultural anthropology, linguistics and physical anthropology. Field courses in these subfields are designed to take advantage of the varied ecology and history and the rich multicultural environment of the Island of Hawai'i.

**Major: 33 semester hours**

- 12 semester hours introductory work or demonstrated proficiency at the 100-level in archaeology, physical anthropology, cultural anthropology, and linguistics; and
- An additional 21 hours of which 12 or more must be at the 300-level or above including Anth 475 and one anthropology methods course (Anth 445, 450, 470 or 482). With the approval of the advisor, 6 semester hours of these 21 may be from other disciplines.

**Minor: 21 semester hours**

Required Courses: 3 of the 4 introductory courses (Anth 100, 110, 115, 121) and 4 additional courses with at least two of the blocks represented.

**Block I:** Anth 200, 320, 322, 323, 324, 330, 335, 354, 356, 357, 386, 387, 399, 445, 475, 485, 495, 499.

**Block II:** Anth 315, 384, 399, 415, 450, 495, 499.

**Block III:** Anth 321, 331, 347, 399, 495, 499.

**Block IV:** Anth 312, 385, 388, 399, 470, 482, 490, 495, 499.

A minimum GPA of 2.0 in minor courses is required.

**100 Cultural Anthropology (3) (S)**

Humans as cultural and social beings. The major concepts and conclusions of cultural anthropology. Biological, social, and linguistic foundations of culture. Basic research methodology.

**110 Archaeology (3) (S)**

Prehistoric archaeology; methods and techniques of excavation and analysis; brief survey of man's cultural growth in prehistoric times.

**115 Human Evolution (3) (S)**

The evolution of humans and their position among the primates. Human adaptation to the environment both in the past and present. Human biology with an emphasis on variation and its sources.

**121 Introduction to Language (3) (S)**

Linguistically oriented approaches to human behavior, including ethnolinguistics, sociolinguistics, and psycholinguistics. The way language functions in culture, society, and the cognitive processes. (Same as Ling 121)

**170 Music in World Culture (3) (Y)**

Music of the non-Western world. Cultures surveyed include Polynesia, the Philippines, Indonesia, Pan-Islam, India, China, Korea, and Japan. (Same as Mus 170)

**200 Cultures of the World: Regional Survey (3) (AY)**

The traditional cultures of various geographic areas of the world. Specific regions to be announced each semester: (b) Oceania, (c) East Asia, (d) South East Asia, (e) South Asia, (f) North America, (g) Africa, (h) South America, (i) Other. (May be repeated for credit if subletters are different)

**299 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: sophomore standing and consent of instructor.

**312 Origins of Civilization (3) (AY)**

Origin and development of agriculture, chiefdoms, states, and ancient civilizations in the Old and New Worlds. Theories regarding development of complex societies.

**315 Ecological Anthropology (3) (Y)**

Relationship of humans to their natural environment, particularly emphasizing the role of culture as a dynamic component in ecological systems. Pre: Anth 100 or 115, or consent of instructor.

**320 Cross-Cultural Study of Women (3) (AY)**

Comparative analysis of women's roles and women's lives in different societies. Topics include women's status, life stages, gender roles, images of women and power. (Same as WS 320)

**321 Morphology and Syntax (3) (IO)**

Introduction to grammatical analysis and theory; practical experience in solving problems in morphology and syntax, using data drawn from a wide variety of languages. Pre: Ling 102 or consent of instructor. Recommended: Ling 311. (Same as Eng 321, Ling 321)

**322 Comparative Religion (3) (IO)**

Anthropological approach to comparative religions; comparative structural and functional analysis of religious phenomena. Theories of religion and magic. (Same as Rels 322)

**323 Cultural and Social Change (3) (AY)**

Various approaches to cultural and social change in nonliterate and modern societies; evolution, diffusion, acculturation, adaptation, revolution.

**324 Culture, Sex and Gender (3) (AY)**

A cross-cultural examination of the development of gender systems and gender roles. Consideration of sex roles and activities as part of the larger gender system. Pre: Anth 100 or consent of instructor. (Same as WS 324)

**330 Social Organization (3) (AY)**

Human social institutions, general principles of social interaction formulated from ethnographic data. Pre: Anth 100 or consent of instructor.

**331 Language in Culture and Society (3) (Y)**

An examination of the articulation of language in social and cultural context, including topics relevant to sociolinguistics and ethnolinguistics. Pre: Anth/Ling 121 or Ling 102 or consent of instructor. (Same as Ling 331)

**335 Social Conflict (3) (IO)**

Theories of conflict and conflict resolution are explored against the background of conflicts at all levels from small-group interaction to inter-tribal and international confrontations.

**336 Political Anthropology (3) (AY)**

A cross-cultural examination of political systems, political competition and dispute settlement. Consideration of political figures and political action in pre-state societies, early and modern states. Pre: Anth 100 and PolS 101 or consent of instructor. (Same as PolS 336)

**340 Urban Anthropology (3) (IO)**

A cross-cultural perspective on urbanism as an adaptive phase in human development. The course explores urban life around the world, rural-urban relationships problems and opportunities of city life. Special attention is devoted to Asian cities.

**347 Pidgins and Creoles (3) (AY)**

A study of the world's pidgins and creoles; the origin and nature of pidgins and creoles; the relationship of Hawaiian Creole English to other creoles in the world; the link between the development of a creole and language acquisition. (Same as Eng 347, Ling 347; recommended Ling 102 or 121)

**354 Filipino Culture (3) (AY)**

Introduction to Peoples and Cultures of the Philippines. Topics include cultural origins, linguistics and cultural diversity, values, social structure, and overseas Filipino adaptations.

**356 Japan (3) (Y)**

Culture origins and development with emphasis on contemporary Japanese culture. (Same as Jpst 356)

**357 Change in the Pacific (3) (Y)**

Peoples of the Pacific Islands with emphasis on contemporary cultures and social and political problems. Pre: consent of instructor.

**358 Japanese Immigrants (3) (Y)**

Examination of social and cultural adaptations of Japanese immigrant populations, with foci on Hawai'i and Brazil. Topics include the role of the Japanese government and emigration companies, the factors of generation, kinship, ethnicity, and contemporary Japanese migrants. (Same as Jpst 358)

**384 Primatology (3) (AY)**

Evolutionary approach to the nonhuman primates. Biological and behavioral adaptations of primates to their ecological setting. Implications of primate adaptations for understanding human biology and behavior. Pre: Anth 115, or Biol 150. (Same as Biol 384)

**385 Hawaiian and Pacific Prehistory (3)(Y)**

Archaeological overview of the cultures of the Pacific before European contact with an emphasis on Polynesia and Hawai'i.

**386 Hawaiian Culture Before 1819 (3) (Y)**

Hawaiian culture before the 1819 overthrow of the native Hawaiian religion: fishing and farming, political-economic organization and religion. Emphasis on early Hawaiian writers—Malo, Kamakau and 'Ūi. Pre: Anth 100 or Haws 111 or consent of the instructor.

**387 Modern Hawaiian Culture (1819 to present) (3) (Y)**

Change and continuity in Hawaiian culture from 1819 to the present, in the context of interaction with non-Hawaiians. Major cultural transformations of the nineteenth century. Hawaiian culture in the early and later twentieth century. Pre: Anth 100 or Haws 111.

**388 Historical Archaeology (3) (Y)**

Historical archaeology as an integral aspect of anthropological inquiry into culture-contact and culture change. Topics include research designs, field methods, laboratory methods, and generating "anthropological histories". North American historical archaeology is reviewed with an emphasis on the potential applications of historical archaeology in Oceania. Pre: Anth 110.

**389 Cultural Resource Management (3) (AY)**

Covering issues pertaining to the identification, evaluation, and conservation of cultural resources, with an emphasis on archaeological sites. Central topics include the National Historic Preservation Act, the Native American Graves Protection and Repatriation Act, Hawai'i State legislation regarding cultural resources, and the implementation of these laws in Hawai'i by government and private organizations.

**399 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**415 Medical Anthropology (3) (Y)**

Approaches to health, disease and medicine in both Western and non-Western cultures including ecological, evolutionary and anthropological perspectives of disease. Pre: 9 credits in either anthropology or biology.

**435 Senior Seminar in Pacific Studies (3) (AY)**

A reading and research seminar under the supervision of the Pacific Islands Studies faculty aimed at demonstrating competence in research and writing on issues related to Pacific Islands environments, culture, society, and economy. Pre: consent of instructor for students near completion of Pacific Islands Studies Certificate coursework. (Same as Geog 435)

**445 Ethnographic Field Techniques (3) (AY)**

Techniques of anthropological field research; ethnographic literature and work with informants. Pre: Anth 100 or consent of instructor.

**450 Physical Anthropology Laboratory (4) (AY)**

Human biology of living and skeletal populations. Methods and techniques of quantitative and qualitative analysis of human anatomical, physiological and biochemical variation under field conditions. Pre: Anth 115 and consent of instructor.

**470 Museology (3) (IO)**

Museum training, including museum activities, exhibits, administration, custodial problems and interpretation. At least one field trip to Lyman House Museum. Pre: Anth 100 or 110, or consent of instructor.

**475 History of Anthropological Theory (3) (Y)**

Theory and method in anthropology; emphasis on cultural/social anthropology. Pre: Anth 100 and junior or senior standing, or consent of instructor.

**481 Archaeometry (3) (AY)**

Covering a broad range of analytical techniques in archaeological research, emphasizing the relationships of archaeology to the natural sciences. Mini-sections of the course involve hands-on laboratory experience, covering geoarchaeology, zooarchaeology, archaeology, identification of raw materials and resources, and dating techniques.

**482 Archaeological Research Methods (4-6) (AY)**

Archaeological methods including research design, field methods such as survey, mapping and excavation, and laboratory methods. Normally taught as a summer session course. Credit varies depending on length of field project (4-6 weeks, 8/hrs./day). Pre: Anth 110 or permission of instructor. May be repeated for credit up to maximum of 12 credit hours.

**484 Stone Tool Analysis (3) (AY)**

Analytical techniques related to stone artifacts (lithics) from archaeological sites, with an emphasis on lithic technology, or understanding the processes by which stone tools were manufactured, used, and eventually discarded. Identification of lithic "debitage," geochemical characterization, use-wear, and applications to Hawaiian flaked, pecked, and ground tools.

**485 Applied Anthropology (3) (AY)**

Anthropological methods, concepts, and theories as they apply to the solution of contemporary human problems. Exploration of the use of anthropology in various occupational areas. Pre: Anth 100 and junior or senior standing, or consent of the instructor.

**490 Internship in Archaeology (3-6) (S)**

Placement and experience in public, private, and/or government agencies involved in archaeological research plus completion of related research project. Pre: Anth 110 plus instructor and departmental approval. May be repeated for credit if topics are different up to a maximum of 12 credits.

**495 Proseminar (3) (AY)**

Selected problems in current research: (b) archaeology, (c) linguistics, (d) social and cultural anthropology, (e) applied anthropology, (f) psychological anthropology, (g) physical anthropology, or (h) other areas of interest. Limited to anthropology majors or students with at least 9 semester hours of anthropology courses above 100-level. (May be repeated for credit if topics are different)

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**ART (Art)**

**Office:** EKH 214, (808) 974-7479

**Professor:**

Wayne A. Miyamoto, M.F.A.

**Associate Professor:**

Michael D. Marshall, M.F.A.

**Assistant Professors:**

Andrew Grabar, M.F.A.

Keehong Kim, Ph.D.

The Bachelor of Arts degree in Art prepares students for graduate study in studio arts and continued study in areas of applied arts and art education.

The curriculum in Art is designed to provide students with an understanding of art theory, aspects of art history, and the fundamentals of studio practice. Lower division courses involve basic premises and aesthetics of different media, and the development of skills in the application and practice of studio art. Courses in the upper division continue to advance theory, media, and studio applications with greater exploration of individual expressions.

The program presently emphasizes the studio areas of painting, drawing, and printmaking. Other specific areas of study can be arranged through consultation with the Art Department and the College of Arts and Sciences.

Students should fulfill the Foundation Studio Program requirements as a block of 12 credits during their first two years of study. Students in their junior and senior year of study pursue individual work through the sequence of courses in studio practice. Students are encouraged to develop portfolios of their work during their studies.

**Major: 42 semester hours****1. Foundation Program Studio: 12 semester hours**

Art 121: FP Studio/Beginning Drawing

Art 122: FP Studio/Beginning Painting

Art 123: FP Studio/2-D Design Theory

Art 124: FP Studio/3-D Design Theory

**2. Art History: 12 semester hours**

Art 270: Aspects of Western Art

Art 280: Aspects of Asian Art

Art History - elective

Art History - elective

**3. Studio Specialization: 18 semester hours including 6 semester hours upper division. Specialization in Drawing, Painting, Printmaking.**

**Note:** The B.A. in Art requires a total of 30 credits of 300/400-level coursework because of the concentration of 100/200-level courses required in the major.

**Minor: 24 semester hours**

**Block I:** 121, 122, 123, 124 (12 semester hours)

**Block II:** Select one course from 101, 270, 280.

**Block III:** Select three studio courses numbered 200 or above (9 semester hours)

**Introduction/Foundation****101 Introduction to the Visual Arts (3) (S)**

Slide/lecture course and introduction to the visual arts in their various forms and expressions.

**121 FP Studio: Beginning Drawing (3) (S)**

Foundation Program Studio. Basic drawing concepts with studio investigations into line, shape, form, light and value, and space. Explorations of principles of visual organization and basic drawing media of pencil, charcoal, crayon, pen and ink, and brush and ink. Discussion of perceptual relationships of light and space.

**122 FP Studio: Beginning Painting (3) (Y)**

Foundation Program Studio. Introduction to painting; exploration of color theory and its applications; and investigation of perceptual relationships of light, color, and space. Studio exploration of the principles of visual organization through applications of color concepts and fundamental materials and techniques of painting.

**123 FP Studio: 2-Dimensional Design (3) (Y)**

Foundation Program Studio. Investigations of two-dimensional design concepts and the elements and principles of visual organization. Inquiry into perceptual and visual relationships of design principles. Discussion of relationships of visual elements and time and space.

**124 FP Studio: 3-Dimensional Design (3) (Y)**

Foundation Program Studio. Investigation of the principles and elements of design in three-dimensional concepts. Tactile exploration of forms, environments, and expressions. Explorations into perceptual relationships of time, light, and space in three-dimensional visualizations.

**Drawing and Painting****221 Intermediate Drawing (3) (Y)**

Life drawing and study of the human figure; studio drawing concepts and application of drawing materials. Explorations of anatomy, gesture, contour, form, light, and space in relation to figure studies. Pre: Art 121. Repeatable for a total of 9 semester hours.

**222 Intermediate Painting (3) (Y)**

Intermediate painting studio. Development and explorations of painting materials and concepts and the visual relationships of subject matter, content, and composition. Pre: Art 121, 122.

**321 Advanced Drawing (3) (AY)**

Studio practice of advanced and individual problems in drawing. Pre: Art 221. Repeatable for a total of 9 semester hours.

**322 Advanced Painting (3) (Y)**

Studio practice of advanced and individual problems in painting. Pre: Art 221, 222. Repeatable for a total of 9 semester hours.

**Printmaking****215 Printmaking: Intaglio (3) (Y)**

Basic intaglio techniques of etching, engraving, drypoint, and aqua-tint; perceptual and conceptual exercises in composition and pictorial structure. Pre: Art 121, 123.

**216 Printmaking: Lithography (3) (AY)**

Basic lithographic techniques; development of concepts. Pre: Art 215.

**315 Advanced Printmaking: Intaglio (3) (Y)**

Advanced intaglio techniques involving more complex development of individual projects. Pre: Art 215. Repeatable for a total of 9 semester hours.

**316 Advanced Printmaking: Lithography (3) (IO)**

Advanced studio practice in independent projects. Pre: Art 216. Repeatable for a total of 9 semester hours.

**Photography\***  
**Textiles/Fiber Arts\***  
**Ceramics\***

\*Photography/Textiles/Fiber Arts, and Ceramics courses are offered only through special arrangements with Hawai'i Community College or the summer session. Please consult with the Art Department for additional information.

## History of Art

**270 Aspects of Western Art (3) (Y)**

The development of western art and architecture, with emphasis on the impact of Christian traditions on the arts of classical Greece and imperial Rome; modes of artistic expression after the American and French Revolutions.

**280 Aspects of Asian Art (3) (Y)**

The history of form and content in various Asian cultures, with emphasis on the art and architecture of India and southeast Asia, and the expansion of Buddhist arts to China and Japan.

**370 Modern Art (3) (AY)**

A history of twentieth century European and American art to the present; relationships with earlier traditions. No prerequisites necessary for juniors and seniors; others admitted by special permission.

**375 Christianity and the Arts (3)**

Relationships of the arts to Christian beliefs and ritual from early Christian era to the present; role of the artist, church, and patron. No prerequisites for juniors and seniors; others admitted by special permission. (Same as Rels 375)

**380 Art of China (3) (AY)**

Chinese art from the Neolithic period to the Qing Dynasty, with emphasis on the Song and later periods. No pre-requisites necessary for juniors and seniors; others admitted by special permission.

**381 Art of Japan (3) (AY)**

The history of art in Japan with emphasis on Buddhist art, the relationships between Chinese and Japanese arts. No prerequisites necessary for juniors and seniors; others admitted by special permission. (Same as JpSt 381)

**385 Religious Arts of East Asia (3) (AY)**

Interrelationships of the arts and religion in various Asian cultures, with emphasis on Buddhism, Hinduism, Confucianism, Daoism, and Shinto. No prerequisite necessary for juniors and seniors; others admitted by special permission. (Same as Rels 385)

**390 Seminar in Contemporary Art (3) (AY)**

Focuses on the issues raised by contemporary art and traces historical/aesthetic developments from the beginning of the Modern period to the present. Assigned readings and lecture/discussion. Pre: Art 270, 280 or consent of the instructor.

**485 Art of Islam (3) (AY)**

Major developments in the arts and architecture of the Islamic world; relationships with the arts of Europe, Africa and Asia. Pre: Art 270 or consent of instructor. (Same as Rels 485)

## Special Courses in Art

**199 Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required.

**299 Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing.

**300 Intermediate Studio Seminar (3) (IO)**

Studio explorations in a variety of media including mixed media. Presentations, critiques, and assigned readings for the purpose of comparative study and discussion. Pre: Foundation Program Studios (Art 121, 122, 123, 124) and completion of two semesters of 200-level art studios.

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**494 Special Topics in Art (1-3) (IO)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: consent of instructor.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

## ASTRONOMY (Astr)

Office: LS2, (808) 974-7383

**Professors:**

Richard A. Crowe, Ph.D.  
 Robert A. Fox, Ph.D.  
 William D. Heacox, Ph.D.

**Associate Professor:**

Michael J. West, Ph.D.

**Instructor:**

Norman G. Purves, M.S.

**Technician:**

Roy R. Thompson, M.S.

The Bachelor of Science in Astronomy at UH Hilo is the first such undergraduate university program within the State of Hawai'i. It has the principal aim of providing training and instruction at the undergraduate level for students seeking careers in astronomy and related fields. To accomplish this, the new program incorporates the following elements: (a) emphasis on training in observational astronomy, thus building on the resource represented by the astronomical observatories atop Mauna Kea; (b) flexibility to allow students to prepare adequately for a wide variety of career choices, such as: entrance to astronomy graduate school, training for technical careers in astronomy observatory support roles, preparation for careers in related fields such as planetary geosciences or remote sensing, and preparation of teachers, who wish to incorporate astronomy into the public school curriculum. In addition, our Observatory Internship program, to be coordinated with institutions based in the University Research Park, will offer students a unique opportunity to gain practical or research experience at astronomical observatories atop Mauna Kea prior to obtaining their degree.

One NASA-funded support program is available to students seeking careers in astronomy and related fields. The Space Grant Fellowship Program offers competitive fellowships to students of exceptional promise,

usually during their senior year; the fellowships provide a full tuition waiver and \$1,000/semester stipend. Space Grant Fellows conduct a proposed research project under the supervision of a faculty mentor, and participate in University-wide Space Grant College symposia. Funding for travel to meetings is available from this program.

For a complete description of requirements for the Astronomy major and Astronomy minor and for specific Astronomy course descriptions, see Physics and Astronomy.

## BIOLOGY (Biol)

**Office:** LS2, (808) 974-7383

### Professors:

Leon E. Hallacher, Ph.D.  
Don E. Hemmes, Ph.D.

### Associate Professors:

Donald K. Price, Ph.D.  
John F. Scott, Ph.D.

### Assistant Professors:

Susan I. Jarvi, Ph.D.  
William J. Mautz, Ph.D.

### Instructors:

Grant C. Gerrish, Ph.D.  
Christine A. Kornet, M.S.

The Biology program provides students with “hands-on” training in a wide variety of disciplines ranging from evolution, ecology, and conservation biology to cell and molecular biology. Instruction includes a variety of classroom, laboratory, and field work which emphasizes the unique terrestrial environment of Hawaii. Classes make excursions into volcanic areas and tropical rain forests to study ecological and evolutionary processes. Students are afforded individual attention and provided with the opportunity to work individually in research projects directed by the faculty. Two degree options and multiple tracks prepare students for the job market or further study in graduate school in the biological sciences, as well as professional schools in medicine, dentistry, veterinary medicine, and other health related programs. The program also provides the scientific background for teaching biology at the intermediate and high school levels. Minority students headed for professional careers in the health sciences may apply for participation in the Minority Biomedical Research Support Program funded by the National Institute of Health.

Two degree options are available to students interested in studying biology: the Bachelor of Arts in Biology and the Bachelor of Science in Biology. In addition, a biology minor is available.

Students who work toward the Bachelor of Arts in Biology have two degree tracks from which to choose: a Cell and Molecular Track and an Ecology, Evolution, and Conservation biology track. The Cell and Molecular Track is designed for students interested in cell and molecular biology as a career as well for students intending to attend medical, dental, or veterinary school. The Ecology, Evolution, and Conservation Biology Track was created to take advantage of the Big Island’s unique natural environment. It is designed for students wishing to attend graduate school or seek employment in ecology, evolution, conservation biology or other related fields of natural resource planning and management or the ecotourism industry.

The Bachelor of Science in Biology is a degree with a cell and molecular emphasis which also has additional chemistry and math requirements. While it was designed specifically for students interested in attending graduate school in the area of cell and molecular sciences, it also supports students who intend to pursue careers in medicine, dentistry, or veterinary medicine.

### Major: (B.S. Option)

39 semester hours in biology and 50 semester hours in other specifically related courses.

**The following are required of all majors who seek the B.S. degree in Biology:**

### Major requirements:

Biol 150-150L, 153-153L, 270-270L, 275-275L, 281, 357, 380, 410-410L, 415-415L, 466-466L, 495A and 495B.

### Supplemental Requirements:

General Chemistry (Chem 124-124L, 125-125L); Organic Chemistry (Chem 241-241L, 242-242L); Quantitative Analysis (Chem 330-330L); Physical Chemistry (Chem 350-350L or Chem 351-351L); General Physics (Phys 170-170L, 171-171L); Calculus (Math 205, 206), Comu 151, Eng 309. Thirty-one upper division credits needed for graduation are met in the process of completing this degree.

The B.S. option is recommended for students seeking a Biology degree with a stronger emphasis in mathematics and physical sciences, and/or who plan to pursue graduate studies in cell and molecular biology.

### Major: (B.A. Option)

**Cell and Molecular Track Requirements:** 38 semester hours in biology

### Major Requirements:

Biol 150-150L, 153-153L, 270-270L, 275-275L, 281, 380, 410-410L, 415, 466, 495A, 495B, a minimum of one additional advanced laboratory course chosen from 415L or 466L, and a minimum of three units of biology elective as a lecture course, laboratory course, or directed research.

### Supplemental Requirements:

General chemistry (Chem 124-124L, 125-125L), organic chemistry (Chem 241-241L, 242-242L); college physics (Phys 106-170L, 107-171L) or general physics (Phys 170-170L, 171-171L); and applied calculus (Math 115) or calculus (Math 205).

### Ecology, Evolution and Conservation Biology Track Requirements:

38 semester hours in biology

### Major Requirements:

Biol 150-150L, 153-153L, 270-270L, 281-281L, 357-357L, 380, 443-443L, 481-481L, 495A, 495B, and a minimum of three units of biology elective as a lecture course, laboratory course, or directed research.

### Supplemental Requirements:

General chemistry (Chem 124-124L, 125-125L), organic chemistry (Chem 241-241L, 242-242L); college physics (Phys 106-170L, 107-171L) or general physics (Phys 170-170L, 171-171L); and applied calculus (Math 115) or calculus (Math 205).

The following is also recommended: (I) majors planning to pursue graduate studies in cell and molecular biology take both Biol 415L and 466L, Math 205 and 206, courses in quantitative analysis and physical chemistry (Chem 330-330L and 350-350L or 351-351L), and at least two semesters of directed research (Biol 399 or 499); (II) majors planning to pursue graduate studies in Ecology, Evolution and Conservation biology take Biol 410, Biol 482H, Math 205 and 206, Comp 150, and at least two semesters of directed studies (Biol 399 or 499). (III) majors planning to apply to medical/dental/veterinary school take human anatomy and physiology (Biol 243-243L and 244-244L) and participate in volunteer and shadowing experiences in the local medical/dental/veterinary community as appropriate. (IV) majors planning to pursue careers which may include teaching take one or more semesters of teaching assistance and tutoring in biology (Biol 496).

### Minor: 21 semester hours in Biology

Cell and Molecular Track:

Required: Biol 150-150L, 153-153L, 270, 275-275L, 281 and three additional semester hours of biology in courses numbered above Biol 150.

Ecology, Evolution and Conservation Biology Track:

Required: Biol 125 or 270, 150-150L, 153-153L, 181, 281-281L, and 357.

No University of Hawai'i at Hilo Biology courses numbered below 125 are required for, or credited toward, the major or minor in Biology.

**101 General Biology (3) (S)**

A one-semester introductory biology course for non-majors.

**101L General Biology Laboratory (1 3-hr. lab) (1) (S)**

Laboratory for General Biology. (Optional but recommended)

**102 Human Health and Disease (3) (Y)**

Introduction to current problems of human infections, such as the AIDS epidemic, non-infectious disease and the individual's role in maintaining health.

**125 Introduction to Cell and Molecular Biology (3)(Y)**

Introduction to cell and molecular biology for majors in the natural and health sciences. Cell structure and function, the molecular basis of life, metabolic pathways, classical and molecular genetics, the molecular and biological evolution of the universe. Pre: high school Biology (or Biol 101), high school chemistry (or Chem 114).

**150 Principles of Zoology (3) (S)**

The biology of animals; cell structure and function, the molecular basis of life, classical and molecular genetics, major animal taxa, body structure, evolutionary relationships, physiology, ecology, and development.

**150L Principles of Zoology Laboratory (1 3-hr. lab) (1) (S)**

Laboratory for Principles of Zoology. Required for majors.

**153 General Botany (3) (S)**

Plant cells, structure and function, the molecular basis of life, classical and molecular genetics, photosynthesis, genetics, plant structure and development, growth regulation and growth responses, uptake and transport in plants, ecology, and diversity of the plant kingdom.

**153L General Botany Laboratory (1 3-hr. lab) (1) (S)**

Demonstrations and experimentation to illustrate lecture topics. Required laboratory for General Botany.

**156 Natural History of the Hawaiian Islands (3) (Y)**

The formation of the Hawaiian Islands establishment and evolution of their native flora and fauna, human impacts.

**156L Natural History Field Trips (1) (IO)**

Field trips for Natural History of the Hawaiian Islands.

**160 Identification of Tropical Plants (3) (AY)**

General techniques of identifying plants, with special emphasis on plants in Hawai'i important to man: medicinal and poisonous plants, weeds, crop plants.

**171 Marine Biology (3) (S)**

Marine organisms classification, structure, physiology, ecology and adaptations to the marine environment. This course satisfies CAS general education requirements in the Natural Sciences. Pre: previous or concurrent enrollment in Biol 125. (Same as Mare 171)

**171L Marine Biology Laboratory (1) (S)**

Provide students with direct exposure to the biota of Hawai'i via laboratory and field trips to sites around Hilo. The course focuses on the identification, natural history, and ecology of common marine organisms. Pre: current or previous enrollment in Biol/Mare 171. (Same as Mare 171L)

**181 Conservation Biology (3) (Y)**

Fundamentals of ecosystem and community ecology applied to the conservation of biodiversity; basic tools and concepts used in the scientific management of endangered species and sensitive ecosystems. High school biology recommended.

**190 Hawaiian Marine Field Experience (1) (Y)**

Provides a unique opportunity for students to experience the marine environment of the Big Island. Course consists of field trips to coastal and underwater sites around the island. Some swimming and snorkeling involved but not required. (Same as Mare 190)

**194 Special Topics in Biology (1-3)**

Topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied.

**199 Directed Studies (1-3)**

Permission of instructor and statement of planned reading required.

**201L Oceanography Laboratory (2) (Y)**

The basic techniques of oceanography including: marine charts and navigation, bathymetry, marine sediments, techniques for measuring salinity, temperature, dissolved oxygen, and surface and deep circulation, wave dynamics, plankton sampling and identification, marine fishes and invertebrates, and marine wildlife management techniques used in tagging sea turtles. Field trips required. Pre: concurrent or previous enrollment in Mare 201. (Same as Mare 201L)

**205 General Entomology (2 lec, 1 3-hr. lab) (3) (S)**

(Entomology 304, College of Agriculture, may be taken for biology credits as Biol 205.)

**243-244 Human Anatomy and Physiology (3-3) Yr. (Y)**

The anatomy and physiology of the major human organ systems and physiological processes. Pre: Biol 243 or equivalent or consent of instructor is a prerequisite for Biol 244.

**243L-244L Human Anatomy and Physiology Laboratory (1 3-hr. lab) (1-1) Yr. (Y)**

Laboratory study of human anatomy (including microscopic) and physiology. Pre: concurrent enrollment in Biol 243-244 or consent of instructor.

**250 Statistical Applications in Marine Science (3) (S)**

Hands-on approach to design field experiments, collect ecological data, analyze microcomputer data using statistical methods, and presentation of results. Requires completion of an independent project, using data collected in the field followed by the preparation of both written and oral reports. Pre: Mare/Biol 171 or Mare 201. (Same as Mare 250)

**254 Animal Nutrition (2 lec., 3-hr lab) (3) (Y)**

(Animal Science 244, College of Agriculture, may be taken for biology credit as Biol 254.)

**264 Quantitative Underwater Ecological Survey Techniques (QUEST) (3) (Y)**

The application of commonly utilized near shore underwater ecological surveying techniques using scuba. Intensive two-week course combining lecture and field work. Data will be collected in the field, reduced, analyzed and presented in an oral report. (Same as Mare 264)

**270 Intermediate Cell and Molecular Biology (3) (S)**

Integrated cell and molecular biology for life science majors. Modern advances in recombinant DNA technology. Pre: Biol 125 (or Biol 150 and 153), and Chem 125 or consent of instructor. Chem 242 recommended and may be taken concurrently.

**270L Intermediate Cell and Molecular Biology Laboratory (1 3-hr lab) (1) (S)**

Laboratory exercises in cell and molecular biology with an emphasis on the use of modern methods of DNA analysis. Pre: Biol 125 (or Biol 150-150L and Biol 153-153L), and Chem 125L or consent of instructor. Chem 242L recommended and may be taken concurrently. Concurrent enrollment in or prior completion of Biol 270 is required.

**275 Fundamentals of Microbiology (3) (S)**

A survey of microbiology with emphasis on bacteria, viruses, infectious diseases and their control. Pre: one semester of college chemistry.

**275L Fundamentals of Microbiology Laboratory (1 3-hr. lab) (1) (S)**

Required laboratory for Fundamentals of Microbiology.

**281 General Ecology (3) (Y)**

General ecological and evolutionary principles. Relationships of plants and animals to their environments. Processes regulating growth and evolution of populations. Community structure and function. Pre: Biol 150 or 153. High school algebra or equivalent is recommended.

**281L General Ecology Laboratory (1 3-hr. lab) (1) (Y)**

Laboratory supporting Biol 281. Reconnaissance field trips to view and sample representative ecosystems, instruction in basic field biology, laboratory demonstrations and use of mathematical and simulation models. Reports written in scientific style. Pre: concurrent registration in Biol 281.

**299 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: sophomore standing and consent of instructor.

**309 Biogeography (3) (IO)**

(Geography 309 may be taken for biology credit as Biol 309.)

**323 Mammalian Physiology (3 lec., 3-hr lab) (4) (Y)**

(AnSci 350, College of Agriculture, may be taken for biology credit as Biol 323.)

**357 Evolution (3) (Y)**

Organic evolution as a unifying theory of biology. Topics include the history of ideas of evolution, adaptation of populations, genetic drift, molecular evolution and the neutral theory, quantitative genetics, speciation and phylogeny, biogeography and macro-evolutionary trends, and mass extinctions. Pre: Biol 150 or 153.

**357L Evolutionary Genetics Laboratory (1 3-hr. lab) (1) (Y)**

A laboratory and field course to be taken in conjunction with Biol 357 lecture. Laboratory exercises will introduce students to the techniques in evolutionary genetics with special reference to Hawaiian plants and animals. Topics to be covered include: quantitative genetics, natural selection, molecular genetics analysis of populations and species, ecological genetics and adaptation, and conservation genetics. Pre: Biol 150, Biol 150L, Biol 153, Biol 153L, Biol 270, Biol 270L.

**360 Marine Resources (3) (IO)**

A survey of human use of the marine environment including physical and biological resources. Topics covered include: fisheries, mariculture, marine mineral and energy resources, chemical resources of sea water, the use of coastal lands and waste disposal in the sea. Pre: Mare 201 or Biol/Mare 171, or consent of instructor. (Same as Mare 360)

**364 Advanced QUEST (3) (Y)**

Students lead a dive team learning underwater ecological surveying techniques; supervise field data collection, data reduction and analysis, and team presentation of written and oral reports; and assist in training students in identification of marine organisms. Pre: Scuba certification, UH diving certification, current CPR/first aid. Pre: Biol/Mare 264 and consent of instructors. Students receive CR/NC for the course. (Same as Mare 364)

**366 Tropical Marine Research Investigations (3) (Y)**

Research projects on marine-related problems. Students will do a literature search; develop experimental design; collect, reduce and analyze data; do a written final report; and present findings at a symposium. Projects will be selected from a list of topics or can be original with the consent of the instructor. Pre: consent of instructor. (Same as Mare 366)

**371 Biology of Marine Invertebrates (3) (AY)**

Survey of the major groups of invertebrates, focusing on those dominant in the marine environment. Identification, classification, anatomy, physiology, and natural history of the major groups. Pre: Mare/Biol 171 or Biol 150 or equivalent. (Same as Mare 371)

**371L Biology of Marine Invertebrates Laboratory (1) (AY)**

Direct exposure to the major groups of invertebrates in the marine environment, focusing on those present in Hawai'i. Identification, classification anatomy, physiology, and natural history of the major groups. Pre: concurrent or previous enrollment in Mare/Biol 371. (Same as Mare 371L)

**372 Biology of Marine Plants (3)(AY)**

Diversity, distribution and ecology of marine macroalgae and seagrasses. Student will learn methods to identify common marine plants of the Hawaiian Islands and the tropical Pacific. Marine plants and their relationship to human affairs will be discussed. Pre: Mare/Biol 171 or Biol 153 or consent of instructor. (Same as Mare 372)

**380 Biostatistics (3) (S)**

Statistical analysis as applied to research in the biological sciences. Theory and applications of statistics; experimental design; basic statistical concepts; multi-variate analyses and non-parametric analyses. Group and independent projects, analyzing data using microcomputers.

**382 Benthic Ecology (3) (AY)**

The ecology of benthic marine systems with emphasis on the interactions between organisms in near shore and deep sea communities and their environment. Pre: Sophomore standing and Biol/Mare 171 or equivalent or consent of instructor. (Same as Mare 382)

**384 Primatology (3) (AY)**

Evolutionary approach to the nonhuman primates. Biological and behavioral adaptations of primates to their ecological setting. Implications of primate adaptations for understanding human biology and behavior. Pre: Biol 150, or Anth 115 or 215. (Same as Anth 384)

**392 Biology and Philosophy (3) (AY)**

Philosophical examination of the implications of modern biology for how we understand ourselves and our relations to the natural world. Evolutionary, genetic, developmental, and ecological topics will be discussed. Pre: previous work in Philosophy or Biology, or consent of the instructor. (Same as Phil 392)

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**410 Biochemistry (3) (Y)**

Basic compositions and functions of biological matter, metabolic interconversions and transformations; the bioenergetics involved and the levels of control over these processes. Pre: Biol 125 or 270, Chem 242 and Phys 107 or 171, or consent of instructor. Chem 330 and 350 or 351 recommended.

**410L Biochemistry Laboratory (1 4-hr. lab per week) (1) (Y)**

Electrometric titration and chromatographic analysis of amino acids, advanced quantitative assay of proteins, advanced quantitative assay, purification and kinetic analysis of enzymes. Required laboratory for Biochemistry. Pre: concurrent enrollment in Biol 410 and completion of Biol 270L, Chem 242L and Phys 171L or consent of the instructor. Chem 330L and Chem 350L or 351L recommended.

**415 Cell Biology (3) (Y)**

Ultrastructural and molecular aspects of cell membranes, cellular energetics, cell mobility, cellular synthesis and growth, and cell division. Pre: Biol 410.

**415L Cell Biology Laboratory (1 4-hr. lab per week) (1) (Y)**

Light and electron microscopy of selected cells. Optional laboratory for Cell Biology. Pre: concurrent enrollment in Biol 415 and completion of Biol 270L or consent of instructor.

**417 Plant Anatomy (4) (Y)**

(Horticulture 437, college of agriculture, may be taken for biology credit as Biol 417.)



**425 Water Quality and Aquatic Productivity (2 lec., 1 lab) (3) (Y)**

(Aquaculture 425, College of Agriculture, may be taken for biology credit as Biol 425.) (Same as Mare 420)

**443 Ecological Animal Physiology (3) (Y)**

Study of the physiological adaptations of animals to environmental variation including physiological and biochemical mechanisms for food acquisition and digestion, thermal energetics, respiratory gas exchange, activity metabolism, and osmoregulation. Pre: Biol 270, 281, 357, 380, and concurrent registration in Biol 443L.

**443L Ecological Animal Physiology Laboratory (2) (Y)**

A laboratory and field course on physiological adaptation to environmental variation to be taken in conjunction with Biol 443. The course will include initial laboratory exercises on techniques and technology for making physiological measurements. During the remainder of the semester, students will use these techniques in group research projects in the laboratory or field and gain experience in experimental design, data analysis, and report writing. Pre: Biol 270, 281, 357, 380 and concurrent registration in Biol 443.

**450 Physiology of Reproduction (3) (Y)**

Mammalian reproductive anatomy and physiology; emphasis on the laboratory and domestic animal species and on the human. (AnSc 450, College of Agriculture, may be taken for biology credit as Biol 450.)

**466 Genetics (3) (Y)**

Classical, molecular, and population genetics. Pre: Biol 410.

**466L Genetics Laboratory (1 3-hr. lab per week) (1) (Y)**

Classical genetics usually including crosses with flies, worms and yeast. Molecular genetics usually including DNA gel analysis, construction of recombinant DNA molecules and their expression in transgenic organisms, and Polymerase Chain Reaction amplification of DNA. Optional laboratory for genetics. Pre: concurrent enrollment in Biol 466 and completion of Biol 270L and Biol 410L or consent of the instructor.

**475 Fish Population Dynamics (2 lec., 1 lab) (3) (Y)**

(Aquaculture 475, College of Agriculture, may be taken for biology credit as Biol 475.)

**481 Theory and Methods of Ecology and Evolution (3) (Y)**

The major subdisciplines of ecology and evolutionary biology, with emphasis on the models and methodologies of areas of active research. Taught using examples of published research. Pre: Biol 270-270L, 281-281L, 357-357L, 380, and concurrent registration in Biol 481L.

**481L Ecology and Evolution Research Methods (2) (Y)**

Intensive field-laboratory supporting Biol 481. Research topics selected from current fields of active research within ecology and evolution. Develop research hypotheses, gather data from field sites, analyze and interpret data and write reports in the style of scientific papers. Concurrent registration in Biol 481 required.

**482H Honors Application of Ecology and Evolution (3) (Y)**

Practical experience in performing research projects in ecology, evolution and conservation biology. Students will submit project proposals for evaluation and approval, do a thorough literature review, develop an experimental design, and collect and analyze data. Students will also prepare a final written report and give a 15-minute seminar presentation on their projects. Pre: Biol 443L, Biol 481 and 481L; 3.5 GPA or consent of instructor with departmental approval.

**484 Biology of Fishes (3) (AY)**

The biology of marine and freshwater fishes. Topics covered include: general anatomy, locomotion, respiration, osmoregulation, sensory systems, reproduction, electrosensitive and electrogenic fishes, coloration and bioluminescence in fishes, migratory patterns, trophic ecology, territorial behavior, and phylogenetic interrelationships. Pre: Biol/Mare 171 or Biol 150 or their equivalent, or consent of instructor. (Same as Mare 484)

**484L Biology of Fishes Laboratory (1 3-hr. lab) (1) (IO)**

Anatomy of jawless, cartilaginous and bony fishes. Review of common local reef fishes. Optional laboratory and field trips for Biology of Fishes. (Same as Mare 484L)

**494 Special Topics in Biology (1-3)**

Advanced topics chosen by the instructor. The course content will vary and may be repeated for credit, provided that a different topic is studied.

**495A Seminar (1) (S)**

Lectures, discussions and research reports of topics in biology presented by faculty, students, and visiting scholars. Students attend seminars and receive CR/NC grade for the course.

**495B Seminar (1) (S)**

Lectures, discussions, and research reports of topics in biology presented by faculty, students and visiting scholars. Each student must attend seminars and present a talk to receive a CR/NC grade for the course.

**496 Teaching Assistance and Tutoring in Biology (1-3) (S)**

Practice in individual tutoring, and in the preparation and presentation of selected topics in Biology lecture or laboratory courses, under direct instructional supervision. This course may be repeated for a maximum of 6 credits and may not be used to replace any specific course requirements of the Biology major other than elective units. Statements of planned teaching assistance and tutoring activities required. Pre: consent of the supervising instructor and the department chair.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**BUSINESS ADMINISTRATION (GBus)**

**Office:** EKH 270, (808) 974-7400

**Professors:**

Harry W. Hennessey, Jr., Ph.D.  
Stephen C. Hora, D.B.A.

**Associate Professors:**

Jerry M. Calton, Ph.D.  
Robert King, D.B.A.  
Marcia Y. Sakai, Ph.D.  
Robert T. Stack, Ph.D.

**Assistant Professors:**

Kelly Burke, Ph.D.  
Jeffrey Decker, MBA, CPA, C.MA, CFM  
Emmeline dePillis, Ph.D.  
Terrance J. Jalbert, Ph.D.

Students in the Business Administration program take a course of study that follows the guidelines of the American Assembly of Collegiate Schools of Business. At least 62 semester hours must be taken in subjects other than business. This requires that at least 4 hours of General Electives (General Education Requirements III) be taken outside of courses normally taught in a business program. This requirement is intended to provide the BBA graduate with a broad liberal education in addition to the specialized education of the business curriculum.

All BBA students are required to complete the pre-business program which is composed of courses in accounting, economics, business communications, business law, mathematics and quantitative business applications, as well as the general education requirements of the College of Arts and Sciences. Following completion of this program, students are admitted to the upper division business program where they complete advanced courses in selected fields of study such as accounting, finance, marketing, management, and computer and quantitative methods.

Bachelor of Business Administration: To earn a Bachelor of Business Administration degree, a student must acquire 124 semester hours, complete the earlier listed general education requirements for any

baccalaureate degree, and satisfy the following Pre-Business and Professional BBA degree requirements.

### Mission Statement

The School of Business at the University of Hawai'i at Hilo offers a challenging and supportive, undergraduate learning environment that prepares our students to manage and lead by thinking critically, acting creatively, and working cooperatively to achieve personal and organizational goals. Our students will acquire the knowledge, attitudes and skills needed to become effective, ethical decision-makers. The school targets a culturally and ethnically diverse constituency from within the state, as well as from the mainland US, Pacific Rim countries, and Pacific Island nations. For program objectives, visit our website at: [www.uhhawaii.edu/~business/](http://www.uhhawaii.edu/~business/)

## Pre-Business Program

### I. General Education Requirements

- A. Written Communication (3 semester hours). Eng 100, 100T or ESL 100; Must be fulfilled before completion of 24 credits. (Pass with C or better grade).
- B. Quantitative Reasoning (3 semester hours)  
Math 115 (Pass with C or better grade).
- C. World Cultures (6 semester hours)  
Ag 230; Anth 100, Anth/Mus 170; Eng 253, 254; Geog 102; Hist 151, 152; Discoveries IS 198A, KInd 240.
- D. Humanities (Total of 9 semester hours at 100-200 level). Communication (Comu 151—pass with C or better grade) AND, two from two of the following: Art, English, Hawaiian Studies and Indigenous Studies; Languages (including Hawaiian and Indigenous); Linguistics; Performing Arts; Philosophy; Religious Studies.
- E. Social Sciences (9 semester hours at 100-200 level). Econ 130 (Pass with C or better grade). AND, two from two of the following: Anthropology, Bus Administration: Bus 100 only, Geography, History, Political Science, Psychology, Sociology, Women's Studies.
- F. Natural Sciences (10 semester hours at 100-200 level, including 1 lab). CS 101 (pass with C or better grade) AND, two from two of the following, plus one lab: Agriculture Sciences (Aquaculture, Animal Science, Horticulture, Food Science, Forestry, Plant Pathology, Soil); Astronomy; Biology; Chemistry; Geology; Marine Science; Mathematics; Natural Science; Physics.

#### Hawai'i/Asia/Pacific Requirement

Any one course from list of Hawai'i/Asia Pacific course listed in UHH 2001-2002 General Catalog.

#### Writing Intensive Requirement

Any 2 Writing Intensive courses and any 1 Writing Intensive course numbered 300 or above.

#### Pre-Business Core Requirements (18 semester hours)

Acc 250 (Pre CS 101); Acc 251 (Pre Acc 250); Econ 131, (Pre Econ 130); Eng 309; (Pre Eng 100) Mgt 240; QBA 260; (Pre: Math 115, CS 101). (Pass with C or better grade in each).

## Professional Business Program

To begin the upper-division Business Core, candidates must have completed 50 hours of university level coursework with a minimum GPA of 2.5 and completed the specified core course pre-requisites.

### I. Business CORE Requirements (30 semester hours)

- A. Mgt 300, 333; Mkt 310; Fin 320; QBA 360, 361, 362.
- B. Econ 300 or Econ 340.

C. Mgt 423 or Soc 423 or Phil 323.

D. Mgt 490.

E. Each Business CORE course must be completed with a grade of "C" or better.

### II. Business Electives (15 semester hours)

Students are to select, with the assistance or consent of their advisor, at least 15 semester hours of Business electives at the 300-400 level to be completed during their junior and senior years. Three semester hours of Business electives may be 300-400 level Econ courses. Students must achieve a 2.0 cumulative GPA for all Business elective courses.

### III. General Electives (up to 18 semester hours)

Students may select up to 18 semester hours of general elective courses in consultation with their advisor. At least 3 semester hours must be taken in non-business topics.

#### Total Semester Hours Required by the BBA Degree: 121

No more than 62 semester hours in business topics may be applied to this degree.

**Non Business Academic Minor:** In the case of B.B.A candidates who pursue an academic minor, no more than nine semester hours of courses which satisfy the requirements of the B.B.A. may be counted toward the minor.

**Residence Requirement:** BBA candidates must complete at least 24 of the credits used to satisfy upper-division Business core and Business elective requirements while in residence at UH Hilo.

#### Business Administration Minor (21 semester hours)

Students pursuing non-Business degrees may minor in Business by completing the following courses with a grade of at least "C" in each course: Acc 250 and 251; Econ 130; Mgt 300 and 333; Mkt 310; and Fin 320.

#### Certificate in International Studies

The International Studies Certificate integrates a wide variety of existing courses into a cohesive whole focusing on international issues. This program of study is designed to prepare students for career opportunities in the new world system; a world system in which nongovernmental actors are proliferating, global communications networks multiplying, world travel expanding and in which states are becoming increasingly interdependent. The Certificate is particularly useful for students pursuing careers in the foreign service, international institutions, nongovernmental international organizations, international business and tourism. The International Studies Certificate aims both to ready students for careers in the new world system and to foster global understanding.

The International Studies Certificate requires two years of a foreign language with prerequisite preparation in general education courses that emphasize world geography and culture. The core courses, also at the lower division level, emphasize international political and economic structures and interrelationships. The student then chooses an area for concentrated study. Students can either choose to concentrate in the area of tourism or in the area of international relations (see listing under Political Science for International Relations Concentration Option). The concentrations are comprised of upper division courses, which consider issues in a global context and stress cross-national understanding. The Certificate is notable for having a capstone seminar study or study abroad feature providing "hands-on" experience for the student.

**The Tourism Concentration Option** is intended to familiarize students with international travel and tourism in terms of the tourists themselves, their service providers, and the government policies which can facilitate or create barriers for travel or for tourism development. An interdisciplinary approach informs consideration of the economic, environmental, social and cultural aspects of international tourism. This option allows students to examine tourism from a broad policy perspective or from an enterprise perspective. It is useful for students pursuing careers in tourism hospitality businesses or other tourism-related enterprises and in governmental tourism-related organizations.

**General Education Co-Requisites (12 credits):**

Select four courses from: Anth 100, Anth/Ling 121; Geog 102, 103; Hist 151, 152, Mus 170.

**Program Requirements (22 credits):**

First year language (8 credits); Second year language (8 credits); Core courses (6 credits): PolS 242 or PolS 251; Econ 210.

**Tourism Concentration Option (12 credits):**

Tour 317, 320, Tour 340. Select one course from the following: Anth 323; Econ 310, 360, 380; Geog 340; Mkt 310; Mgt 333; PolS 335.

**Capstone Experience (3-6 hours):**

See advisor for options.

## Accounting (Acc)

**250 Financial Accounting (3) (S)**

Accounting theory and methods used to record and report financial information; methods for valuing the assets, liabilities, and ownership of an organization. Pre: CS 101 (CS 101 may be taken concurrently with Acc 250).

**251 Managerial Accounting (3) (S)**

Methods for evaluating financial performance including cost accounting, budgeting, breakeven analysis, ratio analysis, and sources and uses of funds. Pre: Acc 250.

**350 Intermediate Accounting I (3) (Y)**

The accounting process and the application of generally accepted accounting principles to assets and liabilities. Emphasis upon accounting theory. Pre: Acc 250 and junior standing.

**351 Intermediate Accounting II (3) (Y)**

The application of generally accepted accounting principles to accounting for owner's equity, long-term investment and debt, funds flow, consolidations, and financial statement analysis. Pre: Acc 350 and junior standing.

**352 Individual Income Tax (3) (Y)**

Principles and practices involved in the determination of federal income taxation and tax planning as it applies to individuals including the concept of gross income, exclusions, deductions, credits, property transactions and sole proprietorships. Pre: Acc 250 and junior standing.

**353 Cost Accounting (3) (Y)**

Cost accounting system output relevant to managerial decision making, planning and control. Topics include job order and process costing, direct and standard cost systems, with emphasis on application and analysis of cost. Pre: Acc 251 and junior standing.

**354 Small Business Accounting (3) (IO)**

Practical applications of general ledger systems and financial statements for small businesses. Firms of various industries will be used as examples. Different types of business organizations will be reviewed. Pre: Acc 250 and junior standing.

**358 Governmental Accounting (3) (Y)**

Accounting principles as applied to nonprofit organizations, including government. Emphasis on budgetary control and fund accounting. Pre: Acc 251.

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**450 Advanced Accounting (3) (AY)**

The application of generally accepted accounting principles to specialized accounting entities: partnerships, branches, affiliated companies, estates and trusts; and to special topics. Pre: Acc 351.

**454 Auditing (3) (Y)**

Auditing concepts including standards, objectives, and ethics for external auditors. Emphasis on reporting standards, internal control, evidence, statistical sampling, and EDP audits. Pre: Acc 350.

**494 Special Topics in Accounting (1-3)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: varies with topic.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

## Business (Bus)

**100 Introduction to Business (3) (IO)**

A study of business functions, methods of business operation, types of business ownership, and the role of business organizations in contemporary society.

**400 Internship (3) (S)**

Supervised on-the-job experience in the business community. Comprehensive report by student, meetings with faculty advisor, and performance evaluation from employer required. May be repeated for a total of 6 credits. Pre: Mgt 300, Mkt 310, Fin 320, QBA 361, QBA 362; minimum cumulative GPA of 3.00; compatibility with career interests; consent of instructor; pre-approved job placement and internship contract.

## Finance (Fin)

**220 Personal Finance (3) (IO)**

A managerial concept is applied to personal financial affairs; traditional life-cycle approach is structured in terms of a personal balance sheet model; begins with various tools and techniques of planning and ends with the ultimate disposition of the estate; brief case problems are used for illustration. Pre: sophomore standing.

**320 Principles of Business Finance (3) (S)**

Introduction to concepts and techniques of business finance. Topics include organizational forms, agency relationships, financial analysis and planning, the capital formation process and capital markets, risk and return, time value of money, stock and bond valuation, and capital budgeting. Pre: Acc 250, Math 115.

**321 Investment and Security Analysis (3) (Y)**

Fundamentals of the securities market; development of skills needed to analyze current portfolios and potential investments. Topics include risk reduction, investment analysis, security valuation, portfolio management and option/futures speculation. Pre: Fin 320 and junior standing.

**322 Corporate Finance (3) (Y)**

Development of tools to help managers analyze and solve financial problems. Topics include capital budgeting, capital structure, dividend policy, lease financing, short and long term asset and liability management, options and futures contracts, merger/take-over analysis and bankruptcy analysis. Pre: Fin 320, Acc 251.

**325 Small Business Finance (3) (IO)**

Application of financial principles to small business firms; Topics include planning, valuation, investment decision making (fixed and working capital investments) and procurement of funds. Pre: Fin 320 and junior standing.

**370 Principles of Real Estate (3) (Y)**

Real estate principles including legal, physical, and economic elements, as well as concepts of valuation, market analysis, and finance. Examined are public and private externalities affecting the allocation and utilization of real estate resources. Pre: Fin 320 and junior standing.

**371 Real Estate Investments & Finance (3) (Y)**

Application of the investment process to produce the optimal decision for the investor in choosing among alternatives. Topics include market research, forecasting cash flows, tax considerations, measuring investment performance, and the risk element. Pre: Fin 370 and junior standing.

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**494 Special Topics in Finance (1-3)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: varies with topic.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**Management (Mgt)****235 Planning, Process and Structure in Electronic Business (3) (Y)**

Issues in the management of businesses intending to engage in electronic commerce (EC). Topics include the forms, structures, internal processes, and organizational behaviors likely to be exhibited by e-businesses, and how e-businesses may differ from traditional businesses in these respects. Case studies will be used extensively to explore these issues. Also examined are startup and planning requirements for EC managers and entrepreneurs (netpreneurs).

**240 Business Law (3) (S)**

The law of contracts, agency and employment, and the elements of property and government regulation. Law of business organizations, with emphasis on partnerships and corporations and law of sales and commercial paper. Pre: sophomore standing.

**300 Management, Organizations and Human Behavior (3) (S)**

Survey of classical and modern management theory and practice. Management implications of organization theory. Basic concepts in work motivation, communication, group dynamics, leadership, organizational change, conflict, personality, and leadership. Pre: Comu 151 and Eng 309.

**330 Human Resource Management (3) (Y)**

The contemporary theory and practice relating to the management of human resources: recruiting, selection, psychological testing, interviewing, job evaluation, performance review, training and development, wage and salary administration, benefit and service programs, and labor-management relations. Pre: Mgt 300 and junior standing.

**332 Organizational Behavior and Management (3) (Y)**

The human relations movement; basic concepts in behavior pertaining to organizations including personality, motivation, leadership, communication, change, conflict, and group dynamics. Course includes the relationship of these concepts to performance, job satisfaction and organizational commitment. Pre: Comu 151 and Eng 309.

**333 International Business Management (3) (S)**

Provides a systematic introduction to international business management, drawing examples from Pacific Rim business and commerce. Course introduces multinational marketing and international aspects of personnel management, plus introductory material on international business financial transactions. Pre: Econ 131 and Mgt 300.

**379 History of Entrepreneurship in America (3) (A)**

The role of entrepreneurship in developing the American business system from its European origins to its current global manifestations and its future prospects. Focus on the values, characteristics, and practices of entrepreneurs and on the changing relations over time between business labor and government. (Same as Hist 379)

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**423 Business and Society (3) (S)**

Impact of business on society and the impact of the societal environment on business operations and decision making. Pre: Mgt 240 and Mgt 300 or consent of instructor. (Soc 323 or Phil 323 may be substituted for this course in the professional core.)

**425 Business Planning for New Ventures (3) (Y)**

Development of a business plan for a new venture with attention to form of business organization; competitive advantage; accounting systems and controls; financial, marketing, human relations, operations and risk management; government regulation and compliance; social responsibility. Identification of sponsors and sources of help for small business. Pre: Comu 151, Eng 309 and Econ 130 or Bus 100.

**430 Labor Relations and Collective Bargaining (3) (AY)**

History, structure, current state, and future of organized labor in the U.S. Legal issues surrounding collective bargaining and labor agreements. Processes of collective bargaining and labor contract administration. Grievance systems, arbitration, and other forms of dispute resolution. Economic issues under collective bargaining. Pre: Mgt 300.

**490 Strategic Management (3) (S)**

Integrative capstone course using concepts of strategy formulation, competitive analysis, and strategy implementation as models for problem solving and decision making in an organizational setting. Computer software applications are used to aid in comprehensive case analysis. Pre: Mgt 300, Mkt 310, Fin 320, QBA 361 and senior standing.

**491 Small Business Consulting (3) (Y)**

Development of a consulting report for a local small business. Student is assigned to a consulting team and a local small business or community organization. Each consulting team will produce a consulting report that identifies major issues facing the client organization and an action plan designed to address these issues and improve competitive position. In addition to the written report, each team is required to make an oral presentation of findings. Compliance with a binding non-disclosure agreement is required. Pre: Mgt 300, Mkt 310, Fin 320, QBA 361 and senior standing.

**494 Special Topics in Management (1-3)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: varies with topic.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**Marketing (Mkt)****310 Principles of Marketing (3) (S)**

Fundamental marketing concepts and contemporary marketing issues are analyzed within present economic, social and legal environments; consumer and functional analysis are emphasized. Pre: Econ 130 Mgt 240 and Acc 251.

**311 Marketing Management (3) (Y)**

Planning, evaluation, and control of the marketing function. Procedures for developing the analysis and solution to common marketing management problems involving pricing, distribution, product development and promotion. Pre: Mkt 310.

**312 Retailing Management (3) (Y)**

Principles, functions, and analysis of problems in retailing: location and layout, merchandise planning, buying and selling, organization, expense analysis and control, coordination of store activities. Pre: Mkt 310.

**313 Promotional Strategy (3) (Y)**

The role of promotion in an organization's communication processes from a theoretical and managerial perspective. Advertising, personal selling and sales promotion are analyzed from the view of both the organization and its consumer groups. Pre: Mkt 310 and junior standing.

**314 Marketing Channels of Distribution (3) (Y)**

The concepts and theoretical foundations of the relationships among suppliers, manufacturers, processors, wholesalers, retailers, and consumers. Also, channel decision and distribution policies in the interest of the consuming public and the organization are discussed. Pre: Mkt 310 and junior standing.

**315 Consumer Behavior (3) (Y)**

An integrated framework for understanding consumer behavior from a marketing perspective. Course focuses on environmental issues, as well as consumer decision processes. Pre: Mkt 310.

**316 Services Marketing (3) (Y)**

Marketing function within a service organization, designing the service product, and establishing service price, communication and distribution policies. Distinctions are developed between marketing strategies of service and goods-oriented organizations, and between "for-profit" and "not-for-profit" organizations. Pre: Mkt 310 and Mgt 300.

**318 Internet Marketing (3) (Y)**

Marketing principles applied to Internet commerce. This course examines the tools and techniques currently used to harness the potential of the Internet. Internet marketing strategies that effectively blend the product, price, distribution channels and communication variables will be discussed along with the use of relationship marketing through on-line strategies. The preparation and use of an Internet marketing plan will be developed through case studies and/or student projects. Pre: Mgt 235 or Mkt 310.

**319 Marketing Research (3) (Y)**

An overview of the marketing research process as part of an organization's decision support systems. Topics include research design, attitude measurement, along with data sources, collection and analysis. A research application component will emphasize the planning, execution, and analysis of a real-world marketing research project. Pre: Mkt 310 and QBA 260.

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**494 Special Topics in Marketing (1-3)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: varies with topic.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**Quantitative Business Analysis (QBA)****260 Business Statistics (3)(S)**

Application of statistics to business. Includes an introduction to probability and sampling; descriptive statistics, inference, regression and one-way analysis of variance. Pre: Math 115 and CS 101.

**360 Management Science (3)(S)**

Mathematical modeling of business decisions. Classical multivariable optimization, linear programming, decision theory, simulation, and additional selected topics. Pre: QBA 260.

**361 Production and Operations Management (3) (S)**

The production and operations management activities. Applications and limitations of problem solving and decision making concepts pertaining

to the acquisition, allocation, use, and evaluation of resources. Pre: QBA 260.

**362 Management Information Systems (3) (S)**

Examination of business information subsystems and the role of computers in accounting, marketing, production, and financial subsystems; theory of general management information systems. Pre: Math 115.

**363 Decision Analysis (3) (AY)**

Modeling of decisions using decision trees, backwards induction, and utility functions. Topics include the use of Bayes' Theorem, structuring decisions, univariate and multi-attribute utility functions, the value of information, sensitivity analysis, and behavioral aspects of decision making. Pre: QBA 260.

**364 Business Database Management (3) (AY)**

The use of computer based systems for business transaction processing and data management. Topics include file structure, database concepts, end-user programming tools, interface design, system analysis and design, and data management issues including privacy, security, integrity, law, and ethics. Pre: QBA 362.

**365 Managing Electronic Commerce (3) (Y)**

Topics in advanced electronic commerce (EC) management. Issues include: defining EC in its various forms; exploring EC strategies; economics of EC; global EC issues. The class will complete a semester-long hands-on project requiring students to: assess a business' needs and opportunities; plan a Web site corresponding to the needs assessment; implement a fully functional and interactive commercial Web site; plan and implement administrative parameters and functions for customer service, security, site monitoring, site maintenance, business performance, and site effectiveness. Pre: CS 201 and Mkt 318, or QBA 362, or consent of instructor.

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**494 Special Topics in Quantitative Business Analysis (1-3)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: varies with topic.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**Tourism (Tour)****317 Marketing and Management of Travel and Tourism (3) (S)**

Principles of marketing and management applied in hotel/motel, resort, restaurant, travel, transportation, tourism and leisure industries. Course looks at who travels, where and why. Focus is on cases involving both small and large firms in the travel and tourism area. Pre: Mkt 310.

**320 Tourism Economics (3) (AY)**

Microeconomics of travel: determinants of demand, empirical studies, demand forecasting; production cost analysis, market structure in major travel industries. Macroeconomic impacts. Pre: Econ 130.

**340 International Travel and Tourism Policy (3) (AY)**

Tourism in international trade, legal environment of international travel, political implications of tourism, social and cultural aspects of tourism, public and private policy issues for developed and developing destinations. Pre: junior standing or consent of instructor.

**399 Directed Studies (1-3)**

Statement of planned reading or research is required. Pre: junior standing and consent of instructor.

**494 Special Topics in Tourism (1-3)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: varies with topic.

**499 Directed Studies (1-3)**

Statement of planned reading or research is required. Pre: senior standing and consent of instructor.

**CHEMISTRY (Chem)**

**Office:** LS2, (808) 974-7383

**Professor:**

Edward Herlicska, Ph.D.

**Associate Professor:**

Ernest B.S. Kho, Jr., Ph.D.

**Assistant Professors:**

Jon Pierre Michaud, Ph.D.

Charles J. Simmons, Ph.D.

The Chemistry Program offers two majors designed to meet the differing needs of students. Each leads to a B.A. degree in Chemistry. The *Chemistry* major offers a traditional curriculum whose requirements are described below. The *Chemistry-Health Sciences* major combines the study of chemistry with 18 semester hours of selected biology courses. Chemistry majors may apply for Initial Basic teaching certificates in elementary and secondary education in the State of Hawai'i in collaboration with the UH Hilo Teacher Education Program.

Major: 45 semester hours of chemistry

**Major Requirements:**

1. Chem 124-124L, 125-125L, 241-241L, 242-242L, 330-330L, 331-331L, 351-351L, 352-352L, 421, and 495A-B.
2. A minimum of six additional semester hours in chemistry courses above the 200-level (By agreement with the department, the student may substitute courses in related areas.)

**Supplemental Requirements:**

1. Math 205, 206, and 231.
2. Phys 170-170L and 171-171L.

Additional recommended courses include at least eight semester hours of a foreign language (French, Spanish, or Japanese); Eng 309; and Math 300 and 311.

**Chemistry Major-Health Sciences:****36 semester hours of chemistry****Major Requirements:**

1. Chem 124-124L, 125-125L, 241-241L, 242-242L, 330-330L, 331-331L, 350-350L, and 495A-B.
2. A minimum of three additional semester hours in chemistry courses above the 200-level: Chem 341 or Chem 441 is recommended.

**Supplemental Requirements:**

1. Math 205 and either Math 206 or 121.
2. Phys 106-170L and 107-171L.
3. Biol 125 or 270, 243-243L or 275-275L, 244-244L or 415-415L, 410-410L and 466-466L.

Additional recommended courses include at least eight semester hours of a foreign language (French, Spanish, or Japanese); Eng 309; and Math 300 and 311.

**Chemistry Minor: 22 semester hours of chemistry**

**Required:** Chem 124-124L, 125-125L, 241-241L, 242-242L, and one 4-credit chemistry course with laboratory at the upper division level.

**111 Chemistry for Non-Science Majors (3) (IO)**

A basic principles course designed for students in the humanities and social sciences. Current problems and the factors affecting them are presented from a simplified chemical viewpoint.

**111L Chemistry for Non-Science Majors Laboratory (1 3-hr. lab) (1) (IO)**

Laboratory principles and techniques presented from the non-science major viewpoint. When possible, experiments will involve everyday phenomena.

**114 Introductory Chemistry (3) (S)**

Introduction to basic chemical principles. Pre: algebra recommended but not required.

**114L Introductory Chemistry Laboratory (1 3-hr. lab) (1) (S)**

Introduction to basic chemical laboratory principles and techniques. Pre: concurrent registration in Chem 114.

**124-125 General Chemistry I, II (4-4) Yr. (S)**

A mathematically rigorous introduction to chemistry designed for majors in the natural sciences. Includes one hour of recitation per week. Pre: high school chemistry (or Chem 114) and high school algebra (or Math 104) and placement by exam. Concurrent registration in Chem 124L-125L. (Chem 124 and 124L satisfy General Education requirements)

**124L-125L General Chemistry Laboratory I, II (1 3-hr. lab) (1-1) Yr. (S)**

Experiments illustrating the fundamental principles and techniques of chemistry. Pre: concurrent registration in Chem 124-125.

**141 Survey of Organic Chemistry and Biochemistry (3) (Y)**

Brief introduction to organic chemistry, and selected topics in biochemistry of interest to students in health and related fields. Pre: Chem 114 (or high school chemistry).

**141L Organic Chemistry and Biochemistry Laboratory (1 4-hr. lab) (1) (Y)**

Introduction to Organic Chemistry and Biochemistry laboratory principles and techniques. Pre: concurrent registration in Chem 141.

**241-242 Organic Chemistry (3-3) Yr. (Y)**

The study of carbon compounds. Topics include molecular structure, stereochemistry, molecular spectroscopy, reactions and methods of preparation of principal classes of organic compounds. Reaction mechanisms. Pre: Chem 125-125L or consent of instructor.

**241L-242L Organic Chemistry Laboratory (1 4-hr. lab) (1-1) (Y)**

Techniques of organic chemistry, including synthesis and qualitative analysis. Applications include spectroscopy and chromatography. Pre: concurrent registration in Chem 241-242.

**299 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: sophomore standing and consent of instructor.

**330 Quantitative Analysis (2) (Y)**

The principles of modern quantitative analysis. Pre: Chem 125-125L and concurrent registration in Chem 330L.

**330L Quantitative Analysis Laboratory (2 3-hr. lab) (2) (Y)**

The techniques of modern quantitative analysis. Pre: concurrent registration in Chem 330.

**331-331L Instrumental Analysis (2 lec., 2 3-hr. lab) (4) (Y)**

Introductory instrumental analysis for chemistry majors but recommended for other natural science majors. Pre: Chem 330-330L or consent of instructor.

**341-341L Qualitative Organic Analysis (2 lec., 2 3-hr. lab) (4) (IO)**

Identification and characterization of organic compounds and mixtures by chemical and spectroscopic techniques. Pre: Chem 242-242L or consent of instructor.

**350 Physical Chemistry for the Life Sciences (3) (AY)**

Principles and theories of Physical Chemistry as applied to the life sciences. For Chemistry majors and other natural science majors. Pre: Chem 242, Math 205 or consent of instructor.

**350L Physical Chemistry for the Life Sciences Laboratory (1 lec., 1 4-hr lab) (2) (AY)**

Laboratory techniques in Physical Chemistry with emphasis in the life sciences. Pre: Chem 125L and Chem 350, which may be taken concurrently.

**351 Physical Chemistry I (3) (AY)**

Principles and theories of physical chemistry at the macroscopic level such as thermodynamics, phase equilibria, and kinetics. For chemistry majors and other physical science majors. Pre: Chem 242, Math 206, which may be taken concurrently, or consent of instructor. Phys 171 is recommended.

**351L Physical Chemistry Laboratory (1 4 hr. lab) (1) (AY)**

Laboratory techniques in physical chemistry at macroscopic level. Pre: Chem 351, which may be taken concurrently.

**352 Physical Chemistry II (3) (AY)**

Principles and theories of physical chemistry at the microscopic level such as quantum mechanics, molecular spectroscopy, and reaction dynamics. For chemistry and other physical science majors. Pre: Chem 351, Phys 171, Math 231, which may be taken concurrently, or consent of instructor.

**352L Physical Chemistry Laboratory (1 4 hr. lab) (1) (AY)**

Laboratory techniques in physical chemistry at microscopic level. Pre: Chem 352, which may be taken concurrently.

**361 Radiochemistry and Nuclear Reactions (3) (IO)**

Radioactive decay processes, radiation effects and detection, and nuclear phenomena including applications. Pre: Chem 352L or consent of instructor.

**371 Analog Chemical Instrumentation (3) (IO)**

Servo systems, solid state devices, including operational feedback controls. Emphasis placed on devices used in modern laboratory research. Pre: Chem 352-352L and Phys 171.

**394 Special Topics in Chemistry (3) (IO)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: junior standing and consent of instructor.

**399 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**421 Intermediate Inorganic Chemistry (3) (AY)**

The classification of inorganic compounds, description and fundamental theories. Course includes molecular orbital consideration. Pre: credit or concurrent registration in Chem 352. Math 206 is recommended.

**441 Intermediate Organic Chemistry (3) (IO)**

The study of more advanced topics in organic chemistry, such as physical organic chemistry, natural products, advanced synthesis, macromolecules, and molecular spectroscopy. Pre: Chem 242.

**451 Intermediate Physical Chemistry (3) (IO)**

Advanced topics in Physical Chemistry such as chemical kinetics, molecular spectroscopy, electrochemistry, thermodynamics and statistical thermodynamics, surface chemistry, and crystallography. Pre: Chem 352 or consent of instructor.

**471 Digital Chemical Instrumentation (3) (IO)**

The concepts of digital systems and instrumentation from simple switching devices, such as semiconductor diodes and transistors, to the latest high speed integrated circuits. Principles of digital measurement will be stressed. Pre: Chem 371.

**495A-495B Seminar (1-1) Yr. (S)**

Seminar presentations of topics in the physical sciences by faculty, enrolled students and invited speakers. The first semester (495A) is taken CR/NC; in the second semester (495B), students are required to present a seminar for a letter grade. Pre: senior standing or consent of instructor. (Same as Astr 495A-495B, Phys 495A-495B, Geol 495A-495B and Math 495A-495B)

**499 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**COMMUNICATION (Comu)**

**Office:** EKH 214, (808) 974-7479

**Professor:**

Ronald D. Gordon, Ph.D.

**Associate Professors:**

Iva R. Goldman, M.A.

Steven Y. Miura, Ph.D.

**Assistant Professor:**

Catherine Becker, Ph.D.

**Instructor:**

Nina Bremer, M.A.

The Department of Communication provides students with a fundamental theoretical and practical education in the field of human communication. With its broad-based approach, the department offers coursework in areas related to interpersonal and small group communication, public address, mass communication and media analysis, intercultural communication, nonverbal communication and general semantics. Students pursuing a major in the program work toward a bachelor's degree in communication that includes required courses in these areas. Students may also pursue a minor to supplement their majors in other degree offering departments.

**Major: 33 semester hours**

**Required:** Comu 200; Comu 251; 3 hours from each of the following areas: mass media studies (Comu 260, 262, 360, 362, 365, 460); human communication studies (Comu 350, 352, 354, 370, 375, 391, 400, 450, 459, 494); and 21 semester hours of Comu electives. A minimum of 12 semester hours (out of 33 total) must be from the 300-level or above.

**Minor: 18 semester hours**

**Required:** Comu 200 or 251; one course from each of the following groups: Comu 352, 370, 459; Comu 354, 375, 391; Comu 260, 262, 360, 362, 365, 460 and 6 semester hours of Comu elective. A minimum of 9 semester hours (out of 18 total) must be from the 300-level or above.

**151 Introduction to Communication (3) (S)**

Principles, theories, and practices in one-to-one, small group, and one-to-many communication situations through participation in structured activities.

**199 Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required.

**200 Fundamentals of Interpersonal Communication (3) (Y)**

The fundamental concepts of interpersonal communication: verbal and nonverbal communication in face-to-face encounters.



**231 Oral Interpretation of Literature (3) (AY)**

Principles of interpretative reading. Practice in textual analysis. Training in individual and group performance techniques. Development, arrangement, and performance of program. (Same as Dram 231)

**240 Professional Communication (3) (AY)**

An overview of the various approaches to organizational, communication, public relations, leadership, and interviewing. Professional presentation, writing, small group problem solving and consulting skills are developed. Also addressed are diversity technology, and globalization issues.

**251 Public Speaking (3) (Y)**

Analysis, preparation and delivery of speeches. Emphasis on content, organization and style.

**260 Mass Communication (3) (AY)**

Historical and contemporary overview of television, radio, film, and the press in American culture.

**262 Introduction to TV-Radio Communication (3) (AY)**

Emphasis on basic communication skills central to being an effective electronic media communicator. Field trips to local broadcast stations, and audio and videotaping assignments.

**273 Radio Drama (3) (IO)**

A survey and production course in Radio Drama with emphasis on the actual production of radio drama(s) for public broadcast. Pre: Dram 170, Speech 260 or consent of instructor. (Same as Dram 273)

**299 Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing.

**340 Interviewing (3) (AY)**

This course focuses on the interview process as a collaborative dialogue. Emphasis is placed on framing the interview, listening ethics, cultural diversity, and the development of interviewing skills. Pre: Comu 151 or 251 or consent of instructor.

**350 Introduction to Human Communication Research (3) (AY)**

An introduction to basic communication research approaches, reviewing the literature, and reporting research.

**352 Communication in Small Groups (3) (AY)**

Discussion processes in small groups. Effects of variables such as group organization, leadership, membership, goals on how a group attempts to achieve its purpose.

**354 Communication in Innovation (3) (AY)**

The role of communications as a change agent in society. Communication strategies in diffusion of information.

**360 Impact of the Mass Media (3)(AY)**

Analysis of some of the major effects of the mass media on the individual and society.

**362 Broadcast Communication Practicum (3)**

Field experience in basic principles of broadcast production and communication requiring a minimum of ten hours each week in an assigned broadcast communication setting. Permission of instructor required. May be repeated once for credit.

**365 Modern American Cinema (3) (AY)**

The study of American film since WWII, drawing from such film genres as the detective-hero, the musical, the western, comedy, social realism, and melodrama.

**370 Persuasion (3) (AY)**

Inquiry into the nature of persuasion or attitude change with focus on the message as a major determinant of the effects of persuasion on receivers.

**375 Nonverbal Communication (3) (Y)**

The nonverbal dimensions of human communication.

**391 General Semantics (3) (AY)**

Understanding language, verbal meaning and implication, roles of perception and assumption (inference and judgment) in human relationships.

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**400 Seminar in Human Dialogue (3) (AY)**

An exploration of the writings of those who contemplate "dialogue", generally considered to be the highest quality form of human communication. Pre: Comu 200 or consent of instructor.

**440 Organizational Communication (3) (AY)**

Organizational communication is an intensive consideration of the role of human communication in organizational effectiveness. The course emphasizes both theory and practice and focuses on historical and contemporary trends affecting organizations. Pre: Comu 151 or 251 or consent of instructor.

**441 Leadership and Communication (3) (AY)**

Relationships between communication and leadership including a consideration of relevant theories, concepts, tools, and skills. Leadership and communication are examined in relation to organizational culture, change, diversity, technology and decision making. Pre: Comu 151 or 251 or consent of instructor.

**442 Communication and Conflict (3) (AY)**

Relationship between human communication and conflict. The relationship among personal history, culture, gender, power, communication, and conflict is considered. Students gain experience in assessing and intervening in conflict situations in both professional and personal contexts. Western, Eastern, and Hawaiian approaches to conflict management are included. Pre: Comu 151 or 251 or consent of instructor.

**444 Public Relations (3) (AY)**

An overview of the practice of public relations in business, educational institutions, non profit organizations, and government. Students will learn how to interact with public relations professionals, the media, write press releases, and design and evaluate campaigns.

**450 Human Communication Theory (3) (Y)**

Examination of traditional and contemporary theories in the study of human communication.

**459 Intercultural Communication (3) (AY)**

Linguistics and nonverbal variables that influence the effectiveness of cross-cultural communication.

**460 Mass Media Analysis (3) (AY)**

Advanced study in mass communication theory, analysis, and criticism, with emphasis upon the electronic mass media. Pre: Comu 260 or 360 recommended.

**494 Special Topics in Speech and Communication (1-3) (IO)**

Advanced-level topics chosen by the instructor. The course content will vary and may be repeated for credit, provided that a different topic is studied. Pre: senior standing and consent of instructor.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

## COMPUTER SCIENCE (CS)

Office: LS2, (808) 974-7383

### Professors:

Bill H. Chen, Ph.D.  
Judith L. Gersting, Ph.D.  
John M. Gersting, Ph.D.  
George T. Koide, Ph.D.

### Assistant Professor:

Eric Jeschke, Ph.D.

### Instructor:

Ted Shaneyfelt, M.S.E.E.

The Computer Science program is designed to provide training for students (1) to possess a basic knowledge of theoretical foundations of computer science, algorithms, data structures, software design, the concepts of programming languages, and computer elements and architecture; (2) to know what general types of problems are amenable to computer solutions and to be familiar with the various tools necessary for solving problems; and (3) to be able to write well-documented, well-organized and readable programs that work correctly and efficiently. The program follows closely the undergraduate curriculum recommended by professional computing organizations and societies. With marketable skills, students are normally in great demand and usually start at a high entry level.

To earn a bachelor of science degree in computer science, a student must acquire 124-125 semester hours, complete the earlier listed general requirements for any baccalaureate degree, and satisfy the following requirements.

### I. Major Requirements (58 semester hours):

#### A. Mathematics (9 semester hours)

Math 311, 407, 421

#### B. Computer Science Required Courses (37 semester hours)

CS 150\*, 151, 215, 266, 321, 410, 420, 430, 450, 460, 461, 470, 495

#### C. Computer Science Electives (12 semester hours)

One of: CS 340, 350.

Two courses from CS 411, 421, 431, 451, 471, and one 400-level computer science course not previously selected.

### II. Supplemental Requirements (27-28 hours)

Math 205\*, Math 206

Physics 170\*, 170L\*, 171, 171L

One of\*: Astr 180, Astr 181, Biol 125, Biol 150-150L, Biol 153-153L, Biol 275-275L, Chem 124, Geol 111, Mare 201

Comu 151\* or Comu 251\*

Eng 309

\*Courses marked with an asterisk (\*) also fulfill General Education requirements

### III. Additional Requirements

- Minimum 2.0 cumulative GPA and 2.0 or better in every major requirement course as stipulated above.
- 45 Upper Division credits, generally satisfied by CS Program Requirements.
- Hawaiian-Asian Pacific Requirement (may be used to fulfill a general education requirement, see list in Catalog or at [http://www.uhh.hawaii.edu/degrees/ba\\_gen\\_ed.html#hap](http://www.uhh.hawaii.edu/degrees/ba_gen_ed.html#hap)).
- Three Writing Intensive courses, generally satisfied by taking Eng 309, CS 460, 461 at UH Hilo.

### Minor (18 semester hours)

Students pursuing non-Computer Science degrees may minor in Computer Science by completing the following requirements with a GPA of at least 2.0 in every course:

- CS 150, 151, 215, 321

- Two 400-level Computer Science electives for a total of 6 credits.

### Certificate in Database Management: 25 semester hours.

The Certificate in Database Management is intended to give students a thorough, technical foundation in the theory, design, implementation and application of databases.

- Required courses: Math 205, CS 150, CS 151, CS 215, CS 321, CS 420, CS 421, CS 494 (3 hours of special topics with a database emphasis).
- Students must complete CS 150, CS 151, and Math 205 or the equivalent with a grade of C or better in each course before applying for admission to the certificate program.
- Students must obtain a grade of C or better in each required course in order to be awarded the certificate.

### 100 Principles of Computer Science (3) (S)

General survey of the entire field of computer science. Principles of machine architecture, human/machine interface, data organization, and their interrelationship.

### 101 Microcomputer Applications Software (3) (S)

Use of modern software applications, including e-mail, word processing, spreadsheets, presentations, database, and Internet access. Topics include creating and modifying documents, using formulas and charts in spreadsheets, creating presentations, and building tables, queries, forms, and reports in a database. Intended for business majors.

### 102 Microcomputer Applications for the Sciences (3) (S)

Use of symbols, equations, images in scientific documents. Computations using spreadsheets with sums, averages, and scientific functions. Data analysis: curve fitting, interpolation, statistics. Data presentation: visualization, charts, and graphs. Symbolic computation. Database processing: forms, queries, reports, VBA. Additional topics chosen from: real-time data acquisition, more advanced statistical methods, system simulation. Intended for science majors. (Same as Math 111) (Satisfies a Quantitative Reasoning General Education requirement as a Mathematics course)

### 110 Visual Basic Programming (3) (S)

An introduction to window-based programming using Visual Basic. Topics covered include the Visual Basic environment, user-interface design, data types, scope, control structures, data structures, graphics, and software engineering.

### 150 Introduction to Computer Science (3) (S)

First course for computer science majors. A breadth-first introduction to the field of computer science touches on algorithms and their analysis, digital circuits, Boolean logic, computer architecture and languages, operating systems and theory of computing. Introduces algorithm design and computer programming using structured and object-oriented design techniques. Develops a foundation of basic knowledge and programming skills necessary for further study in the field. Co-requisite: Math 104 or Math 205.

### 151 Introduction to Software Development (3) (S)

Continuation of CS 150. Recursion, dynamic memory allocation, sort/search, simple structured data types: strings, stacks, queues, lists, and trees. Program design, testing, and documentation. Pre: CS 150.

### 200 Web Technology I (3) (S)

Introduction to Web technology. Overview of web servers and browsers. Web page authoring with HTML. Use of web editors. Elements of graphic design. Scripting languages for active web pages.

### 201 Web Technology II (3) (S)

Issues in intermediate Web site design. Topics include: overview of Web server operations; intermediate client-side programming (browser scripting, applets); basic server-side programming (CGI scripting); alternative markup and display languages. Pre: CS 200 or consent of instructor.

**215 Discrete Mathematics (3) (Y)**

Topics from discrete mathematics, including logic, proof techniques, recurrence relations, set theory, combinatorics, relations, functions, graphs, Boolean algebra, finite-state machines. Not open to students with credit in Math 310. Pre: Math 205.

**220 Business Data Processing (3) (IO)**

Basic business data processing principles. Programming in business-oriented language. Pre: CS 110.

**266 Computer Organization and Assembly Language (3) (Y)**

Organization of computers; assembly language; instruction sets; cpu; memory; input/output; interrupts; dma. Pre: CS 150.

**299 Directed Studies (1-3) (IO)**

Statement of planned reading or research required. Pre: sophomore standing and consent of instructor.

**300 Web Site Management (3) (Y)**

Topics in advanced Web site administration. Issues covered include: site management (OS, Web server and database installation and administration); intermediate server-side programming (databases, servlets); security (encryption, authentication, digital certificates); and content (site design, ethical and business considerations). Pre: CS 201 or consent of instructor.

**321 Data Structures (3) (Y)**

Basic concepts of space/time efficiencies. Algorithms and data structures for searching (binary search trees, AVL trees, hash tables) and sorting. Graph algorithms. Data compression using Huffman codes. Pre: CS 151, 215.

**340 Graphical User Interfaces (3) (AY)**

Study of the graphical user interface as applied to computer software. Examination of history, human factors, design, technology and implementation of graphical user interfaces. Co-requisite: CS 321.

**350 Systems Programming (3) (AY)**

Introduction to systems programming. Covers the C language, shells, streams, processes, scripting, system calls, signals, I/O, event-driven and systems-level GUI programming. Designed for students interested in scientific, engineering or systems programming, systems administration or graduate education in computer science. Pre: CS 151.

**400 Cooperative Education Experience (1-12 var.) (IO)**

Supervised cooperative education experience. One credit is granted for every full-time working month to a limit of 12 credits. All job positions must be approved. Credits earned do not count toward the degree in Computer Science. Pre: B average in CS 150, 151, 215, 266, 321, Math 205, 206, Comu 151, Eng 309; cumulative GPA of 2.5; and consent of instructor.

**410 Elements of Computer Architecture (2 lec., 1 3 hr. lab) (3) (AY)**

Logic circuit analysis and design; flip-flops, registers, counters, microprocessors, basic machine architecture. Pre: CS 215, 266.

**411 Microprocessor Interface Design (2 lec., 1 3 hr. lab) (3) (IO)**

Interfacing of microcomputer with peripherals; D/A and A/D converters; parallel and serial I/O ports; operational amplifiers; transducers; solid-state devices. Pre: CS 410.

**420 File Management (3) (AY)**

Concepts and methods for managing persistent data. Study of stream, sequential, relative and indexed organizations. Implementation techniques and performance. Introduction to SQL. Embedded SQL as a data access technique. Pre: CS 321.

**421 Database Management System Design (3) (AY)**

Data models: hierarchical, network, relational, object oriented. Relational database management systems. Database design. Client/server systems. Web access to databases. Pre: CS 420.

**430 Operating Systems (3) (AY)**

Covers the concepts, issues and design of modern operating systems. Topics include processes and state, concurrency, resource management algorithms for memory, processors and I/O devices, protection and security. Case studies of popular workstation, server and mainframe operating systems. Laboratory projects teach concurrent programming and OS implementation techniques. Pre: CS 266, CS 321.

**431 Computer Networks and Data Communications (3) (AY)**

Broad, thorough survey course covering most aspects of computer networking from electromagnetic wave theory to the design of digital communication and network application protocols. Case studies of point-to-point, local- and wide-area networks on guided and unguided media. Laboratory projects teach protocol implementation, client-server and distributed programming techniques. Pre: CS 321.

**440 Artificial Intelligence (3) (IO)**

Fundamental concepts of artificial intelligence including problem solving, heuristic search and knowledge representation. Discussion of applications such as game playing, theorem proving, and knowledge based expert system. Pre: CS 321.

**450 Organization of Programming Languages (3) (AY)**

Advanced introduction to the concepts and issues in the design of computer programming languages. Topics include classification of languages, types, semantics, special forms, parameter passing, closures, object-orientation, continuations, concurrency, exceptions, interpreters and garbage collection. Laboratory projects highlight design decisions and teach interpreter implementation techniques. Pre: CS 321.

**451 Compiler Theory (3) (AY)**

Study of LL, LR, LALR grammars and compiler techniques suitable for programming languages for use in constructing scanners, parsers, code generators, code optimizers for a compiler. Use of compiler construction tools such as lex and yacc to develop a compiler for a block structured programming language. Pre: CS 321.

**460 Software Engineering I (3) (AY)**

Emphasizes planning, analysis, and design phases of the Software Development Life Cycle with one model of the SDLC covered. Goal is to learn tools and techniques for sound requirement assessment and, working as a team, produce a verified design of a real software product. Pre: CS 321, Eng 309.

**461 Software Engineering II (3) (AY)**

Emphasizes implementation, installation and maintenance phases of the SDLC covered in CS 460. Goals are to learn specific techniques and tools for product development testing, measurement and documentation. Team will complete product. Pre: CS 460.

**470 Theory of Computing (3) (AY)**

Study of various models of computation and their relation to formal languages: finite automata, pushdown automata, Turing machines, regular, context-free, and recursively enumerable languages. Unsolvability, NP completeness. Pre: CS 321.

**471 Analysis of Algorithms (3) (IO)**

Tools for analysis of algorithm efficiency; worst-case and average-case analysis; decision trees and adversary arguments for lower bounds; algorithms drawn from sorting, searching, selection, graphs, string matching, polynomials, matrix multiplication. Dynamic programming and parallel algorithms. Pre: CS 470.

**482 Computer Graphics (3) (IO)**

Principles for the design, use, and understanding of graphics systems. Both hardware and software components are examined. Pre: Math 311 and CS 321.

**494 Special Topics in Computer Science (1-3) (AY)**

Advanced topics chosen by instructor. Course content will vary. May be repeated once for credit provided that a different topic is studied.

**495 CS Professional Seminar (1) (AY)**

Computer Science and Software Engineering are careers demanding technological and ethical application of computer hardware, software and human factors. Course emphasis is on entry into and growth in these careers showing the balancing of needs amongst technology, employee, employer and society. Co-requisite: CS 461.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**DANCE (Danc)-See Performing Arts****DRAMA (Dram)-See Performing Arts****ECONOMICS (Econ)**

**Office:** EKH 270, (808) 974-7400

**Professors:**

Jon T. Cauley, Ph.D.  
Youngki Hahn, Ph.D.  
David L. Hammes, Ph.D.  
Eric Iksoon Im, Ph.D.  
Marcia Y. Sakai, Ph.D.

Students of Economics follow a curriculum that provides a foundation for methodical, analytical, and critical thinking about societies and institutions. Lower-division courses include principles of economics, mathematics, statistics, along with the general education requirements. Upper-division students have the opportunity of taking advanced economics courses in many specialty areas. Students may use the degree to apply for the University's post-baccalaureate Teacher Education Program.

**Major: 30 semester hours in Economics and 7 semester hours of related courses**

- 1. Required:** Math 121 or QBA 260, Math 205, Econ 130, 131, 300, 301, 305, 390.
- 2. Electives:** 12 semester hours in upper division economics courses.

**Minor: 18 semester hours**

- 1. Required:** Econ 130, 131.
- 2. Electives:** 12 semester hours of Econ 300-400 level economics courses which should include one from each group: (I) Econ 301, 302, 305, 360, 370, 380, 381, 420; (II) Econ 300, 310, 340, 361, 410, 430, 440.

**100 Introduction to Economics (3) (S)**

Economic principles for non-majors. Emphasis on the applications of theory to problem solving. (Not more than 3 credits may be granted for completion of both Econ 100 and Econ 150 at Hawai'i Community College.)

**130 Introduction to Microeconomics (3) (S)**

(Formerly 201) How individual prices are determined. Efficient consumer-producer decision making.

**131 Introduction to Macroeconomics (3) (S)**

(Formerly 200) The functioning of economic systems with emphasis on the forces determining levels of, and changes in, national income, employment and the price level. Pre: Econ 130 (formerly Econ 201).

**210 The Global Economy (3) (AY)**

An introductory course for non-majors: fundamentals of supply and demand; international trade and finance; current global economic problems such as poverty, income distribution, and pollution; dynamics of economics and politics; economic cooperation.

**300 Intermediate Macroeconomic Theory (3) (Y)**

Determination of income, employment, price levels; fiscal and monetary policies. Pre: Econ 131.

**301 Intermediate Microeconomic Theory (3) (Y)**

Price determination under monopoly, oligopoly, and competition. Analysis of demand and cost. Pre: Econ 130, Math 205.

**302 Managerial Economics (3) (AY)**

Application of economic and statistical concepts for business decisions. Subjects cover projection of demand and production, case analysis, problems of forecasting, multifactors and multiproducts, technological change: capital budgeting, input-output analysis, and programming techniques. Pre: QBA 361 and Econ 130.

**305 The History of Economic Thought (3) (Y)**

The ideas and theories of major contributors to economic thought since the mid-18th century. The development of economic thought and the interrelationships between the several branches of economic theory. Pre: Econ 130, 131.

**310 Economic Development (3) (Y)**

Analysis of growth, structural change, development patterns, foreign investment, foreign trade, and development policies and strategies; emphasis on Far East and South Pacific Islands. Pre: Econ 130, 131.

**320 Survey of Economic Problems (3) (Y)**

An application of economic analysis to a number of pressing social and economic problems; e.g., pollution, poverty, transportation, etc. Pre: Econ 100 or 130 or 131.

**330 The Hawaiian Economy (3) (Y)**

Analysis of the local and state economy in terms of structure; problems and issues as they relate to the U.S. mainland and international arena. Pre: Econ 130, 131.

**340 Money and Banking (3) (S)**

Relation of monetary system to price level, employment and income; nature and functions of money and banking; role of money in international trade and inflation. Pre: Econ 131.

**350 Urban-Regional Economic Analysis (3) (IO)**

Locational analysis of economic activity. Metropolitan and regional growth and development. Pre: Econ 130, 131.

**360 International Trade and Welfare (3) (Y)**

Theoretical analysis of international trade, current international economic problems, and trade impact on international welfare. Pre: Econ 130, 131.

**361 International Finance (3) (Y)**

Balance of payments, foreign exchange rate policies, and their impact on domestic employment, inflation, internal and external balances, and other related topics. Pre: Econ 130, 131.

**370 Government Finance (3) (Y)**

An explicit introduction to the behavior and objectives of government in the economic system. Analysis focuses on the rationale of nonmarket institutions and on the two groups of agents that operate government, the politicians and the bureaucrats, as these agents allocate expenditures for government activities.

**380 Natural Resource and Environmental Economics (3) (AY)**

An analytical framework for examining the relationships among environmental quality, natural resource use, and economic and political systems; analysis of circumstances that give rise to environmental problems, resource use conflicts, and possible policy solutions to these problems

and conflicts. The course will emphasize issues pertaining to Hawai'i. Pre: Econ 130.

### **381 Labor Economics (3) (AY)**

Labor market analysis; demand for, and supply of labor, determination of wages, trade unions and collective bargaining; Human capital investment, household production theory, mobility and migration. Specific applications to Hawai'i. Pre: Econ 130.

### **390 Econometrics (3) (Y)**

Use of mathematical and statistical techniques to test the reality of economic theory, forecasting, tests of hypotheses. Pre: Math 121 or QBA 260.

### **399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

### **410 Economic Development for Asian and Pacific Nations (3) (IO)**

An examination of critical issues and problems confronting developing countries of the Asian and Pacific regions. Students are expected to pursue a specific issue/problem and develop it into a research paper. Pre: Econ 310.

### **420 Mathematical Economics (3) (IO)**

Equilibrium analysis, comparative-static analysis, dynamic economic analysis, unconstrained and constrained optimization, input-output analysis, linear and non-linear programming, game theory, etc. Pre: Econ 130, 131, or Math 205 or Econ 301.

### **430 Business Cycles and Applied Economic Forecasting (3) (IO)**

Examination of the seasonal and cyclical aspects of economic activity, business cycle theories, and economic indicator series; examination of various techniques for developing applied economic forecasting models. Pre: Econ 131 and 390.

### **440 Monetary Theory (3) (IO)**

Theories of money at the individual and aggregative (or national) levels. For advanced Economics majors. Pre: Econ 301, 340.

### **494 Special Topics in Economics (1-3)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: Econ 130, 131. Senior standing and consent of instructor.

### **499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

## **EDUCATION PROGRAM (Ed)**

**Office:** PB-2, (808) 974-7582

#### **Professors:**

Nina K. Buchanan, Ph.D.  
Addison Watanabe, Ph.D.  
Jan L. Zulich, Ph.D.

#### **Assistant Professors:**

Suellyn Henke, Ph.D.  
Alice J. Kawakami, Ph.D.  
Manulani Meyer, Ed.D.

#### **Instructor:**

T. Marcia Miller, M.A.

The UH Hilo Education Department is dedicated to the holistic development of transformational educators who are committed to equity, empowerment, and a critical understanding of our world. The Department envisions its future as the heart of a learning community of caring, ethical, and creative people as faculty seek to fulfill the following mission: to promote the professionalization of teaching by providing and engaging

in educational experiences that are holistic, empathic, artistic, rigorous, and transformational. The Department aims to provide preservice and inservice teachers with high quality, integrated, inquiry-and field-based professional development; serve as a resource to area educators who are meeting the challenges of teaching in a culturally rich, technologically advanced society; and conduct as well as guide action research to expand knowledge of teaching and learning. To these ends, the Department offers a Teacher Education Program which leads to initial licensure in the State of Hawai'i, and a Master of Education Program.

The need for qualified teachers in Hawai'i is constant. However, prospective employment is based on several factors which may affect one's decision to become a teacher. Shortage areas in the state include special education, mathematics, science, vocational education and Hawaiian Language, especially immersion programs. These shortages do not apply to all communities. Prospective employment is often dependent on factors such as retirements, terminations, long terms of leaves, new programs, enrollment increases and one's willingness to travel or relocate.

Hawai'i is currently one of 39 states that are parties to the Interstate Certification Agreement. Such an agreement assists educators who find it necessary to move to another state by providing a vehicle for recognition of their teacher preparation through licensure based on completion of a state approved teacher education program.

### **Teacher Education Program (TEP)**

The TEP at the University of Hawai'i at Hilo is a post-baccalaureate program designed to qualify teacher candidates for a license issued by the State of Hawai'i Department of Education. Although the decision to become a teacher may occur at any time during one's lifetime, the preparation for teacher education begins long before admission into the TEP. Students who consider seeking licensure should begin preparation during their undergraduate program of study. To prepare adequately, students should contact the Education Department Advising Coordinator Dr. Alice Kawakami, at 974-7582, to make an appointment.

The TEP prepares students to teach at either the Elementary (grades K-6) or Secondary (grades 7-12) level. Prospective Elementary teachers are required to take specific Supplemental course work which may also be used to fulfill some General Education requirements of their UH Hilo undergraduate degree. Prospective Secondary teachers are required to major in academic disciplines related to the areas of licensure identified by the State of Hawai'i. Please note that some majors and/or licensure areas require additional Supplemental course work which must be taken prior to admission into the Teacher Education Program. To determine their target areas of licensure, prospective Secondary teachers should contact the Education Department Advising Coordinator Dr. Alice Kawakami, at 974-7582, to make an appointment.

All prospective Elementary and Secondary teachers are required to complete three prerequisite courses, as described below.

### **Prerequisite Courses for Fall 2002 TEP Applicants**

Each of these prerequisite courses must be passed with a grade of "C" or better:

#### **ALL Elementary and Secondary Applicants**

ED 310 Introduction to Education (3)  
ED 314 Media and Technology (3)  
ED 350 Developmental Concepts of Learning (3)

### **Supplemental Requirements for Fall 2002 TEP Applicants**

Supplemental courses, in combination, must be passed with a 2.5 GPA or better.

#### **Elementary TEP Applicants**

**Humanities (15):**  
**English Writing (3)**

Choose one from the following: Eng 215, 309, 315.

**Literature/Language (9)**

1. Choose one from the following: Eng 200, 251-252, 253-254.

2. Choose one from the following: Ling 102, 121, Eng 320, 324 or 347.
3. Eng 345.

**Oral Communication (3)**

Choose one from the following: Dram 231, Comu 151, 231, 352, 459.

**Natural Sciences and Math (18)**

Math 107 and 108 (8)

Three different areas of science and at least one lab (same as General Education requirement for the B.A. degree) (10)

**Social Sciences (15)**

1. Choose one from the following: Hist 281-282, 360, 371-372, 379, 460, 461, 462, 463, 464, 465, 466, or 476 (3)
2. Hist 316, 317, or Hist 374 (3)
3. PolS 101 (3)
4. Geog 101, 102, 103 or 105 (3)
5. HPE 233 (3)

**Secondary TEP in Social Studies Applicants**

Those seeking the Initial Basic License in the **Social Studies** area (inclusive of majors in Anthropology, Economics, Geography, History, Political Science, Psychology and Sociology) must complete the following additional requirements:

**World Cultures (6 credits):**

1. 3 credits in one of the following: Hist 151 or Hist 152
2. 3 credits in one of the following: Anth 100 or Geog 102

**United States (9 credits):**

1. All of the following: Hist 281, Hist 282, PolS 101

**Hawai'i (3 credits):**

1. 3 credits from one of the following: Anth 386, Anth 387, Geog 332, or Hist 374

**Oceania (3 credits):**

1. 3 credits from one of the following: Anth 200B, Anth 357, Geog 335, Hist 316, or Hist 317

**Secondary TEP in Music Applicants**

Methods: Mus 123, 151, 152, 153, 155, 156 (11 semester hours)

Conducting: Mus 390, 391 (6 semester hours)

Music Education: Mus 337 (3 semester hours)

**Secondary TEP in Chemistry-Health Sciences Applicants**

Astr 110 (3)

Biol 153 & 153L (4)

Geol 111 & 111L (4)

**Secondary TEP in Communication Applicants**

Eng 200 (3)

Eng 251-252 or 253-254 or 351-352 (6)

Eng 215, 315 or 482 (3)

Eng 320, Eng/Ling 324, Eng 325, Ling 102, or Ling 121 (3)

Eng 461 or 462 (3)

**NOTE:** Some of the above courses have prerequisites, thereby adding to the total semester hour requirements of the program.

**Admission to the Teacher Education Program**

Admission to the TEP in Elementary and Secondary fields is for Fall entry only, and enables a cohort of full-time students to complete instructional and field experiences together during the Fall and Spring semesters. Applicants must have completed all degree and designated prerequisite courses and supplemental requirements prior to the Fall semester entry into the program.

All three prerequisite courses must be passed with a grade of C or better. Supplemental Courses for Elementary applicants, Secondary TEP Social Studies applicants, Secondary TEP in Music applicants, Secondary TEP in Chemistry-Health Sciences applicants, and Secondary TEP in Communication applicants must be passed with a 2.5 GPA or better.

The priority deadline for admission for Fall is February 1. Applications received after February 1 will be placed on a waiting list. These

applicants will be interviewed on a space available basis pending the acceptance of qualified applicants who met the priority deadline.

Applicants will be evaluated competitively on the following criteria:

- Completion of application packet
- Completion of baccalaureate and designated supplemental requirements
- Minimum cumulative GPA of 2.75, or equivalent for last 60 credit hours at time of application. For students with work in progress, the 2.75 GPA must be achieved for entry into the Teacher Education Program
- For Secondary TEP applicants, minimum major GPA of 2.75 or passing scores established by the State Department of Education on the appropriate Subject Area Praxis. For Elementary TEP applicants, minimum major GPA of 2.75 or minimum GPA of 2.75 for supplemental courses.
- Passing scores established by State Department of Education on Praxis Pre-Professional Skills Test (PPST) or Computer Based Test (CBT)
- Interview with Education faculty

The application packet is available at the UH Hilo Admissions Office or the Education Department.

Students admitted but unable to attend in the Fall may petition the Department to have their entry postponed for one year. Such petitions are not automatically accepted and students must reapply if they postpone entry for more than a year.

**Academic Status, Progression, and Readmission Policies**

Participants are required to be full-time students during both Fall and Spring semesters. During this time students are expected to devote all their energies and efforts to the course work, field experiences, and other requirements of the program. There are no elective courses.

Grades below "C" will not be accepted in courses designated to fulfill certificate requirements. Required TEP courses, unless designated "credit/no credit," may *not* be taken on a "credit/no credit" basis. A 3.0 GPA must be maintained in all cohort program course work. A student whose GPA in education courses falls below 3.0 may be dismissed from the program. In order to enroll in TEP courses, students must be admitted into the program. Students must progress through the Teacher Education Program experiences in two consecutive semesters. Spring semester enrollment is based on recommendation of the Education faculty. A student may be removed from a field experience when, in the judgment of the Education faculty, Department of Education cooperating teacher, and school principal the student is disrupting the educational process or is not making satisfactory progress toward meeting the requirements of the program. Such removal may result in complete dismissal from the program.

Students who stop out of the University must reapply and meet all criteria in effect for the respective Admission deadline.

**Prerequisite Courses for Elementary and Secondary TEP Certificate Applicants in Fall 2002****310 Introduction to Education (3)**

Introduction to the tasks of teaching, realities and complexities of schooling, basic educational research, and observational and conceptual tools for interpreting what goes on in classrooms. The course is designed to help students think seriously about education as a potential career and to prepare them for admission into the Teacher Education Program. Required for admission into the Teacher Education Program. Must be taken for a grade. Pre: GPA of 2.5 and junior standing or consent of instructor.

**314 Educational Media & Technology (3) (S)**

Introduction to theories, application of principles, acquisition of practical skills of educational media and technology relevant to teaching/learning situations, in classrooms as well as non-school settings. Special emphasis on artistic/aesthetic principles of design. Required for admission into the Teacher Education Program. Must be taken for a grade. Pre: CS 100, GPA of 2.5 and junior standing or consent of the instructor.

**350 Developmental Concepts of Learning (3) (Y)**

Theories of development focusing on the integration of physical, social, emotional and cognitive development during the school-aged years, children (grades K-6) and adolescents (grades 7 - 12). Systematic observation and analysis of the behavior of school-aged children at home, in the community and at school. Required for admission into the Teacher Education Program. Must be taken for a grade. Pre: GPA of 2.5 and junior standing or consent of instructor.

**TEP Initial Basic Certificate Courses Effective Fall 2000****399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**470 Psychological Concepts of Learning (3) (Y)**

Theories of learning, motivation and development which include exploration of individual differences related to intelligence, achievement, and school success. Focus on elementary age children or adolescents. Special emphasis on integrating diverse learners including handicapped students into the regular classroom. Pre: TEP acceptance.

**471 Principles of Instruction and Management (3) (Y)**

Inquiry, decision-making processes, strategies of integrated planning, managing elementary or secondary learning environments, and evaluating student learning processes. Overview of national and state standards; materials, content, and metacurricular methodologies. Exploration of instructional principles and theories of classroom management. Pre: TEP acceptance.

**472 Elementary Integrated Math/Science Methods (4) (Y)**

Exploration of mathematical and scientific concepts through national/local standards using problem solving and inquiry to develop integrated, multi-disciplinary units. Strategies of teaching math and science in grades K-6, including classroom organization, set up and safety. Pre: TEP acceptance.

**473 Elementary Literacy, Language Arts and Social Studies Methods (4) (Y)**

Overview of sociopsycholinguistic reading and writing processes. Emphasis on meaning-based strategies, literature-based literacy development and reading-writing connections. Exploration of the social studies strands and language, as a K-6 integrated and inter-disciplinary approach to thematic planning to enhance the study of culture while reinforcing concepts and skills in each discipline. Pre: TEP acceptance.

**474 Secondary Language Arts and Social Studies Methods (4) (Y)**

Methods of teaching social studies and language arts at the secondary level (grades 7-12). Integrated and inter-disciplinary approaches to enhance the study of culture while reinforcing concepts and skills in each discipline. Pre: TEP acceptance.

**475 Secondary Math/Science Methods (4) (Y)**

Exploration of mathematical and scientific concepts through national/local standards using problem solving and inquiry to develop integrated, multi-disciplinary units which include technology. Strategies of teaching math, science at the secondary level (grades 7-12) including classroom organization, set up and safety. Pre: TEP acceptance.

**476 Literacy in the Secondary School (2) (Y)**

Content area literacy, sociocultural theories and strategies to enhance students' text comprehension and study. Writing in the content areas, use of reference material, young adult literature, and non-print media in the teaching of content area concepts within and across content areas in multicultural classrooms. Pre: TEP acceptance.

**477 Elementary Art Education Methods (1) (Y)**

Scope and organization of art in the elementary school curriculum, creative use of art media through lab experiences. The integration of art

across content areas through the application of two- and three-dimensional media. Pre: TEP acceptance.

**478 Issues in Assessment & Evaluation in Secondary Schools (2) (Y)**

Theory and techniques of measurement and evaluation in secondary education, including supervised experience in authentic/performance based assessment, traditional instrument development and analysis, grading and reporting results. Pre: TEP acceptance.

**479 Field Experience I (2) (Y)**

Practical application of theories and teaching methods and strategies in local schools. Supervised observation and teaching with an emphasis on lesson and unit planning and instruction. Offered on a CR/NC basis. Pre: TEP acceptance.

**483 Seminar in Teaching I (1) (Y)**

Professional development through discussion of educational issues and applications of theories and teaching methods through field experiences in local schools. Offered on CR/NC basis. Pre: TEP acceptance.

**484 Effective Teaching Portfolio (1) (Y)**

The integration of art, media, and technology in the preparation of an effective teaching portfolio. Offered on CR/NC basis. Pre: TEP acceptance.

**485 Seminar in Teaching II (3) (Y)**

Analysis and discussion of common management and instructional concerns of beginning teachers by student teachers and their supervisors. Individual identification and analysis of teaching problems. Offered on CR/NC basis. Pre: TEP acceptance.

**486 Field Experience II (10) (Y)**

Supervised student teaching and professional development experiences in public schools. Supervised observation and teaching with an emphasis on advanced lesson and unit planning. Offered on CR/NC basis. Pre: TEP acceptance.

**499 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**The Master of Education Program**

The Master of Education degree (M.Ed.) is designed to foster professional growth and renewal of licensed teachers. It is a 33-credit-hour cohort program that requires five semesters and two summers to complete. Courses will be offered in the evening and/or on Saturdays.

The M.Ed. is a generalist degree designed to address the unique professional development needs of Big Island teachers who choose neither to relocate nor to enroll in a specialized degree program. It is designed to be broadly useful and is therefore interdisciplinary. The curriculum focuses on philosophical, psychological, and curriculum foundations and emphasizes research and teaching tools which include technology, assessment, research methodology and advanced instructional strategies to facilitate instructional school-based leadership among program graduates.

Admission is based upon previous preparation and requires previous completion of a bachelor's degree and evidence of eligibility for the initial basic license to teach as defined by the UH Hilo Education Department. Generally, an applicant must have earned a grade point average at least of 3.0 (4.0=A scale) or the equivalent in the last four semesters or approximately 60 semester credits of his/her undergraduate record and in all post-baccalaureate work. Applications are available at the UH Hilo Admissions Office. Contact the Education Department at 808-974-7582 for more information.



## Master of Education Courses

### 600 Education of Ethnic Groups in Hawai'i (3) (AY)

Survey of social-psychological learning characteristics, heritage, identity problems of Hawai'i ethnic groups, study of prejudice and inter-ethnic hostilities as related to education and teaching.

### 602 Technology in Education (3) (AY)

Selection, evaluation and utilization of instructional materials for systematic achievement of curriculum goals; investigation of innovative technological advances for use in teaching and training. Pre: acceptance into the M. Ed. program or consent of instructor.

### 608A Fundamentals of Educational Research I (1) (AY)

Systematic study of the purposes of educational research, evaluation and use of research, and introduction of research design principles with emphasis on classroom applications. Pre: acceptance into the M. Ed program or consent of instructor.

### 608B Fundamentals of Educational Research II (1) (AY)

Principles of research design, methodology, and analysis as applied to field research. Pre: successful completion of ED 608A or consent of instructor.

### 608C Fundamentals of Educational Research III (1) (AY)

A synthesis and application of research skills which culminates in an original research proposal. Pre: successful completion of ED 608A and B or consent of instructor.

### 610 Foundations of Education (3) (AY)

Social and intellectual history of education. Historical and contemporary relationships between schools and society. Foundations of the major philosophies of education. Contemporary educational theory and practice as related to major historical, philosophical and social factors in American culture. Pre: teaching credential and one year of teaching experience or consent of instructor.

### 611 Advanced Educational Psychology (3) (AY)

Foundations of educational psychology through the vehicle of an exploratory study. Inquiry approach stresses learning theory, measurement techniques, and research skills in education. Pre: acceptance into the M. Ed. program or consent of instructor.

### 616A Assessment and Evaluation in Education I (1) (AY)

Systematic study of the theory and technology of measurement, assessment and evaluation in educational settings, emphasizing the development and use of traditional techniques. Pre: acceptance into the M. Ed. program or consent of instructor.

### 616B Assessment and Evaluation in Education II (1) (AY)

Systematic study of the theory and technology of alternative assessment and evaluation in educational settings with emphasis on field-based applications. Pre: successful completion of ED 616A or consent of instructor.

### 616C Assessment and Evaluation in Education III (1) (AY)

Synthesis and application of measurement, assessment and evaluation in the use, adaptation, and/or creation of appropriate techniques in an original research proposal for a project or thesis. Pre: successful completion of ED 616A & B.

### 620 Individual Differences: Learner Characteristics (3) (AY)

Systematic study of the conceptual framework of inclusive education which consists of special education, gifted and talented education and compensatory programs. Emphasis will be placed upon individual student characteristics and strategies for effective instruction. Pre: acceptance into the M. Ed. program or consent of instructor.

### 622 School Curriculum (3) (AY)

Development and improvement of curriculum. Explanation of contemporary curricular issues which impact teaching and learning in the classroom. Emphasis on school reform and renewal. Pre: acceptance into the M. Ed. program or consent of the instructor.

### 625 Seminar in Teaching Field (3) (AY)

Study in trends, research, and problems of implementation in interdisciplinary teaching. Pre: teaching experience or consent, and undergraduate special methods course in appropriate teaching field.

### 635 Advanced Instructional Strategies

An examination of various instructional strategies including information processing, social interaction, and personal development. Theory and research in the development, selection, implementation and evaluation of instructional models. Pre: acceptance into the M. Ed. Program or consent of instructor.

Contact the Education Department at 808-974-7582 for more information.

## ENGINEERING

Office: LS2, (808) 974-7383

### Professors:

Bill H. Chen, Ph.D.  
Judith L. Gersting, Ph.D.  
John M. Gersting, Ph.D.  
George T. Koide, Ph.D.

### Assistant Professor:

Eric Jeschke, Ph.D.

### Instructor:

Ted Shaneyfelt, M.S.E.E.

The College of Arts and Sciences currently offers courses at the freshman and sophomore levels applicable to degrees in civil, electrical, general, or mechanical engineering. To enter the engineering program, a student must have completed courses in plane geometry, two years of algebra, trigonometry, mechanical drawing, chemistry, physics, and analytic geometry.

## General (GE)

### 253 Scientific Computer Programming (3) (IO)

Introductory computer programming for physical science applications. FORTRAN Programming language. Pre: Math 205-205L, or consent of instructor.

### 299 Directed Studies (1-3) (IO)

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing.

## Civil (CE)

### 270 Applied Mechanics I (3) (IO)

Equilibrium of particles, rigid bodies, frames and machines; vectors, centroids, friction, and moments of inertia. Pre: Phys 170 and Math 206.

### 271 Applied Mechanics II (3) (IO)

Dynamics of particles and rigid bodies: force-acceleration; impulse-momentum; work-energy. Pre: CE 270 and Math 231.

### 299 Directed Studies (1-3) (IO)

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing.

## Electrical (EE)

### 199 Directed Studies (1-3) (IO)

Permission of instructor and statement of planned reading or research required.

### 211 Basic Circuit Analysis (3 lec., 1 3-hr. lab) (4) (IO)

Linear circuits, time-domain analysis, transient and steady-state responses, phasors, impedance and admittance; network or system functions, frequency response and filtering, resonance. Pre: Math 206.

### 213 Basic Lab Measurements & Techniques (3 lec., 1 3-hr. lab) (4) (IO)

Basic electronic measurements. Characteristics of electronic components including resistors, inductors, capacitors, diodes, and transistors, and elementary circuit application. Pre: EE 211.

### 299 Directed Studies (1-3) (IO)

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing.

## ENGLISH (Eng)

Office: EKH 214, (808) 974-7479

### Professors:

April Komenaka, Ph.D.  
David R. Miller, Ph.D.  
Kenith L. Simmons, Ph.D.

### Associate Professor:

Sherryl S. Mleynek, Ph.D.

### Assistant Professors:

Theresa C. Conefrey, Ph.D.  
Seri Luangphinit, Ph.D.  
Christian Weisser, Ph.D.  
Jennifer Wheat, Ph.D.

### Instructors:

Karla Hayashi, M.A.  
Luke Bailey, M.A.

The English program is designed to help students develop intellectually and personally through their interaction with important ideas well expressed. The department offers two major tracks toward the Bachelor of Arts in English: the Literature track and the Writing track. Both tracks emphasize careful, critical reading of English language texts and thoughtful, responsible writing.

The Literature track, combined with a well-balanced General Education program, provides English majors with a comprehensive humanities education. The Literature major is designed to give students a thorough grounding in the literary tradition in English as well as the tools for addressing the multifaceted questions that literary study raises. Literature courses not only address great works written in English; they also address the nature and context of literary production and study. Program requirements ensure that students will graduate with a well-rounded literary background that will prepare them to pursue careers such as teaching, law, and business, as well as to go on in graduate study.

The Writing track offers students opportunities to study the arts of language and logic in written communication. Students will develop analytical, critical, and persuasive skills in the variety of writing tasks required of professionals in business, law, government, and administration, as well as of graduate students and educators in all disciplines. Courses in the writing track emphasize various contexts and genres in writing, including business and technical writing, academic writing, public discourse, and electronic communication. In addition, students will develop a broad appreciation of writing as an artistic endeavor through the study of literary texts.

The English Department serves all UH Hilo students through its introductory and specialized courses in composition and writing, its literature survey courses, and its linguistics courses. These are designed to strengthen students' awareness of the complexity and power of the written language, and to increase students' ability to think critically and express themselves precisely.

UH Hilo requires all students to complete English 100, English 100T or ESL 100. To enroll in these courses, students must perform at an appropriate level in the UH Hilo Writing Placement Test.

On the basis of their performance in the writing placement test, students might be required to successfully complete certain courses before they can proceed to English 100/100T or ESL 100. Credits earned in English courses numbered below 100 and ESL courses other than ESL 100 do not count towards graduation, but they do count for visa and financial aid purposes.

### The English Major

Students must earn a grade of "C" or higher in all courses required for the major.

#### A. Core requirements for both Literature and Writing tracks:

1. English 251-252.
2. Language: *English 320 or 347; Linguistics 102, 121, or 347; or the 202-level of a course other than English.*
3. Both Eng 309 and 315

#### B. The Literature Track

4. English 253.
5. Complete 18 semester hours of 300/400 level literature courses of which one course must be chosen from each of the following:
  - a. Shakespeare: Eng 461 or 462
  - b. Medieval/Renaissance Literature: 435, 437, 459, 460
  - c. English Literature 1600-1990: Eng 440, 442, 445
  - d. American Literature: Eng 351, 352, 387, 419
  - e. Modern/Contemporary Literature: Eng 355, 371, 464, 483
6. Complete 9 additional credits in 300/400 level English courses. Note: For the language requirement, it is recommended that Literature majors take two college years of language other than English.

#### C. The Writing Track

4. Eng 352
5. Complete 15 credits in the following categories, including at least one from each category. All courses must be designated Writing Intensive.
  - a. ENG 320, 345, 431A-431C, 482, 487
  - b. ENG 318, 324, 484, 485
  - c. ENG 347, 356, 481, 486
6. Earn 6 additional credits from Eng 300-499V

### The English Minor

Students must earn a grade of "C" or higher in all courses required for the minor.

#### A. Core requirements for both literature and writing tracks:

1. English 251-252.
2. Language: English 320 or 347; Linguistics 102, 121, or 347; or the 202-level of a course other than English.

#### B. The Literature Minor

3. Advanced Writing: Eng 309 or Eng 315
4. Nine (9) semester hours chosen from each of the three of the following:
  - a. Shakespeare: Eng 461 or 462
  - b. Medieval/Renaissance Literature: 435, 437, 459, 460
  - c. English Literature 1660-1900: Eng 440, 442, 445
  - d. American Literature: Eng 351, 352, 387, 419
  - e. Modern/Contemporary Literature: Eng 255, 371, 464, 483

**C. The Writing Minor**

3. Eng 309 and Eng 315

4. Nine (9) semester hours chosen from the following list.

All must be designated WI: Eng 318, 320, 324, 345, 481, 482, 494, 485, 486, 487.

**100 Expository Writing (3) (S)**

Instruction and practice in writing clear, effective university-level essays and research paper. Attention to all stages of the process-generating ideas, drafting, revising, and editing. Entry requirements: Eng 100 recommendation on Writing Placement Examination.

**100T Expository Writing with Tutorial Assistance (3) (S)**

Instruction and practice in writing clear, effective university-level essays and research paper. Attention to all stages of the process-generating ideas, drafting, revising, and editing. Attending regular sessions is required. Equivalent to Eng 100 or ESL 100. Entry requirements: Eng 100T recommendation on Writing Placement Examination.

**ESL 100 Expository Writing for Non-Native Speakers (3) (S)**

Instruction and practice in writing clear, effective university-level essays and research paper. Fulfills the Expository Writing (Eng 100) requirement for non-native speakers of English only. Entry requirements: ESL 100 recommendation on Writing Placement Examination.

**199 Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required. Pre: Eng 100/ESL 100 or consent of instructor.

**215 Intermediate Composition (3) (S)**

Writing of essays and research paper from logical and rhetorical principles, especially modes of definition, assertion, and proof. Emphasis on academic writing and research skills. Pre: Eng 100/ESL 100.

**251, 252 Major Works of British Literature (3-3) Yr. (Y)**

251: Middle Age to 1800; 252: 1800 to the present. Pre: Eng 100/ESL 100 or consent of instructor.

**253, 254 World Literature (3-3) Yr. (Y/AY)**

Major works in translation. 253: Classical to 17th century; 254: 17th century to the present. Pre: Eng 100/ESL 100 or consent of instructor.

**299 Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing; Eng 100/ESL 100 or consent of instructor.

**301 The Bible as Literature (3) (IO)**

Selected books of the Old and the New Testaments, examined with respect to their composition, form, and literary merit. Pre: Eng 100/ESL 100 and 200 level literature course or consent of instructor. (Same as Rels 301)

**309 Written Communication for the Professions (3) (S)**

Principles of informative, analytical, and persuasive writing for students preparing for careers in business, science, and technology. Business letters, brief reports, case analysis, a research report, and other useful forms. Wordprocessing skills are needed to complete most assignments. Pre: Eng/ESL 100 and word processing skills.

**314 Journalism (3) (IO)**

Principles of journalism with emphasis on newspaper reporting. Methods of news gathering, writing and editing, research, interviewing, re-writing news releases, and covering campus events and beats. Pre: Eng 100/ESL 100 or consent of instructor.

**315 Advanced Composition (3) (S)**

Writing of essays with an emphasis on rhetorical and stylistic methods, structure, and voice. Pre: Eng 100/ESL 100 or consent of instructor.

**318 Playwriting (3) (IO)**

Basic course in writing for the stage. Development of theme, action, and characterization for the one-act play form. Pre: consent of instructor. (Same as Dram 318)

**320 History of the English Language (3) (AY)**

The major developments in the English language from the 5th century to the present day. Pre: Eng/ESL 100, Ling 102 or Ling 121, or consent of instructor. (Same as Ling 320)

**321 Morphology and Syntax (3) (IO)**

Introduction to grammatical analysis and theory; practical experience in solving problems in morphology and syntax, using data drawn from a wide variety of languages. Pre: Ling 102 or consent of instructor. (Same as Anth 321, Ling 321)

**24 Modern English Grammar and Usage (3) (IO)**

The fundamentals of English morphology and syntax, conventions of written and spoken English, and sociolinguistic aspects of major English registers and dialects. Pre: Eng/ESL 100, Ling 102 or Ling 121, or consent of instructor. (Same as Ling 324)

**344 Children and Language (3) (AY)**

Strategies of language acquisition used by children; emphasis on investigative skills and methods, including some field work. Pre: Eng 100/ESL 100 or consent of instructor. Recommended prerequisite: Anth/Ling 121 or Eng/Ling 203. (Same as Ling 344)

**345 Children and Literature (3) (AY)**

Literature in English for and by children, with special emphasis on the ways in which literature promotes social, emotional, and intellectual development. Pre: Eng 100/ESL 100 or consent of instructor.

**347 Pidgins and Creoles (3) (Y)**

A study of the world's pidgins and creoles with special reference to the Pacific region; the origin and nature of pidgins and creoles; the relationship between Hawai'i Creole English to other creoles in the world. The link between the development of a creole and language acquisition. (Same as Anth 347, Ling 347; recommended Ling 102 or 121)

**351, 352 Survey of American Literature (3-3) Yr. (Y)**

351: American literature to the Civil War; 352: from the Civil War to the present. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**355 Women in Modern Literature and Film (3) (AY)**

Literature and film by and about women from 1900 to the present Feminist literary theory. Pre: Eng 100/ESL 100 and 200-level literature course or college-level Women's Studies course or consent of instructor. (Same as WS 355)

**356 Language and Gender (3) (Y)**

Examination of the articulation of language and gender by way of analysis of research on talk among friends, in the work place and in families. Pre: Eng 100/ESL 100 and 200-level literature course or college-level Women's Studies course or consent of instructor. (Same as WS 356)

**365 Japanese Literature in English (3) (AY)**

Survey of major works from earliest times to the present. Knowledge of Japanese is not required. (Same as JpSt 365)

**366 Utopia in Literature (3) (IO)**

A study of the "Utopian" theme in literature, from Plato's *Republic* to the modern science fiction novel. Pre: Eng 100/ESL and 200-level literature course or consent of instructor.

**370 The Art of the Film (3) (AY)**

Development of the silent and sound film, concentrating on representative works by American, European, and Asian directors. Pre: Eng 100/ESL 100 and one college-level literature course or consent of the instructor.

**371 Topics in Contemporary Literature (3) (AY)**

The development of contemporary fiction, poetry and drama concentrating upon representative works from 1945 to the present. This course may be taken twice provided that different topics are studied. The letter suffix indicates the topic. Pre: Eng 100/ESL 100 and one college-level literature course or consent of the instructor.

**387 Literature of the Environment (3) (Y)**

A study of modern nature writing and environmental issues in several genres. Students will explore how humans negotiate their place in a variety of physical environments. Pre: Eng 100 and a 200-level college literature course, or consent of instructor. (Same as Geog 387)

**394 Special Topics in English (1-3) (Y)**

Advanced topics chosen by the instructor. The course content will vary. Course may be repeated for credit, provided that a different topic is studied. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing; Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**430 Pacific Islands Literature (3) (AY)**

A study of a representative range of contemporary poems, short stories, novels, and plays written in English by Pacific Islanders from Polynesia, Micronesia, and Melanesia. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**431 Creative Writing: Special Topics (3) (Y)**

Study and writing seminar in fiction, non-fiction or poetry taught according to the expertise of the writing instructor. Credit may be earned in each different genre: (A) fiction; (B) non-fiction; (C) poetry. Pre: Eng 100/ESL 100 and college-level literature course and Eng 315, or consent of instructor.

**435 Chaucer (3) (AY)**

The works of Chaucer. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**437 Renaissance Poetry and Prose (3) (AY)**

Poetry and prose of the period 1500-1660, exclusive of Milton. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**442 Romantic Literature (3) (Y)**

Poetry and prose from 1780 to 1832. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**445 Victorian Literature (3) (Y)**

Poetry and prose from 1832 to 1900. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**459 Medieval Literature (3) (AY)**

Early English poetry and prose, with an emphasis on Anglo-Saxon literature, medieval a dramatic poetry, and the works of Sir Thomas Malory. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**460 Renaissance Drama (3) (AY)**

The contemporaries and successors of Shakespeare, with particular emphasis on the plays of Jonson, Beaumont & Fletcher, Webster, and Tourneur. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**461 Shakespeare (3) (AY)**

Selected histories, comedies, and tragedies not studied in Eng 462. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**462 Shakespeare (3) (AY)**

Selected histories, comedies and tragedies not studied in Eng 461. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**464 Modern Literature (3) (AY)**

British and American literature from 1900 to WWII with emphasis on the development of Literary Modernism. Pre: Eng 100/ESL 100 and at least one college-level course or consent of instructor.

**475 Theoretical and Practical Criticism (3) (AY)**

Analysis of historical and contemporary literary theories followed by study and practical criticism of several literary works. Pre: Eng 100, ELS 100 and grade of "B" or higher in any upper-division literature course or consent of instructor.

**482 Teaching Composition (3) (AY)**

Overview of current theory and research informing contemporary English composition instruction at elementary, secondary, and college levels with methods for application to teaching of writing at any level or within any discipline. Pre: Eng 100/ESL 100 and Eng 309 and Eng 315 or consent of instructor. (Same as Ed 482)

**483 Modern Drama (3) (AY)**

A study of works which have established or refined major traditions in modern theater, with some reading in critical theory. Pre: Eng 100/ESL 100 and 200-level coursework in literature. (Same as Drama 483)

**484 ESL Materials and Methods (3) (AY)**

Overview of current theory and practice in the teaching of English as a Second Language. In addition to studying and evaluating various theoretical approaches to ESL teaching and second-language learning, students will gain experience developing and using their own teaching materials. Pre: Eng 100/ESL 100 and a college-level linguistics course and Eng 309 or 315, or consent of instructor.

**485 Writing for the World Wide Web (3) (AY)**

Review of concepts of document design and web publishing, designing and evaluating web documents. Discussion of social, political, legal and ethical aspects of the World Wide Web. Pre: Eng 100/ESL 100 and Eng 309 and CS 200, or consent of instructor.

**486 Applied Professional Writing (3) (Y)**

Preparation and practice in professional writing in real work settings. Includes planning, executing, and analyzing a writing project in the community. Pre: Eng 100/ESL 100 and Eng 309 or consent of instructor.

**487 Technical Writing**

Advanced writing for engineering, science, and technology. Topics covered include analysis of and practice in planning, preparing, and critiquing technical reports, proposals, instructions, and correspondence. Pre: Eng 100/ESL 100 and Eng 309 or consent of instructor.

**494 Special Topics in English (1-3) (Y)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: senior standing; Eng 100/ESL 100 and 200-level literature course or consent of instructor.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing; Eng 100/ESL 100 and 200-level literature course or consent of instructor.

## FRENCH (Fr)-See Languages

## GEOGRAPHY AND ENVIRONMENTAL STUDIES (Geog)

**Office:** EKH 214A, (808) 974-7460

### Professors:

James O. Juvik, Ph.D.  
Sonia P. Juvik, Ph.D.

### Assistant Professors:

Barbara A. Gibson, Ph.D.  
Patrick F. Guiberson, Ph.D.

The Geography program at the College of Arts and Science is designed to expose the undergraduate student to the wide range of topics in contemporary geography. The required courses represent a cross section of physical geography, human geography, and geographic techniques; the elective courses allow a student to mold the major toward his or her areas of general interest.

The Island of Hawai'i offers a setting of diverse natural and cultural environments ideal for geographic studies. Field excursions are an integral and enriching component of the student's geographic education at UH Hilo. Computer-based spatial analysis, cartography, and image processing contribute to a balanced and modern curriculum.

### Major: 39 semester hours

**Required:** Geog 101, 103, 201, 321, 380 or equivalent statistics course, and 498 or six additional upper division credits in geography courses; Eng 309; and:

**Block I:** (6 semester hours) Geog 300, 301, 309, 319, or 320.

**Block II:** (3 semester hours) Geog 312, 328, 330 or 421.

**Block III:** (3 semester hours) Geog 375, 385, 470 or 480.

**Block IV:** (3 semester hours) Geog 102, 105, 332, or 350.

**Note:** Where appropriate, and with the approval of the Geography chairperson, one Special Topics (Geog 494) course may be substituted for a listed course under blocks I, II, III, or IV. Also, with approval of the Geography chairperson up to three of the six Geography electives (in lieu of Geog 498 above) may be drawn from appropriate courses in related disciplines.

### Minor: 18 semester hours

**Required:** Geog 101; Geog 102 or 103; and four additional courses in Geography at the upper-division level with a least one course from each of the following three blocks:

**Block I:** Geog 300, 309, 319, or 320.

**Block II:** Geog 312, 321, 328, or 330.

**Block III:** Geog 375, 385, or 470.

## Certificate in Environmental Studies

Environmental Studies Certificate is a multi-disciplinary program that emphasizes a theoretical and applied approach to environmental and natural resource assessment, classification, problem or phenominal mitigation, policy, and related issues. This certificate program includes courses in the social and natural sciences.

**Physical Studies Certificate in Environmental Studies:** Geog 101 (required entry course); Biol 101, 150 or 153; Chem 114 or 124; Geol 111 or equivalent; Mare 201 or Mare/Biol 360; Soil 304, 401, Ag/Geog 312 or Geog 326; Econ 380 or PolS 335; Geog 494 (required exit course).

## Certificate in Planning

The Geography Program also offers a Certificate in Planning. This is an optional program designed to complement the major in Geography. Non-Geography majors may pursue the planning certificate with the approval of the department chair. Students accepted into the certificate program are required to obtain at least a C grade in Geography 340, 440, two upper division electives (six credits) approved by the planning advisor, and a one-semester internship (Geog 496) with a private or public firm or agency. (The internship will normally be completed in the student's senior year.) Up to two courses in the certificate program may also be counted as Geography major electives. For further details on the planning certificate program, contact any member of the geography faculty.

## Introductory

### 101 Geography and the Natural Environment (3) (S)

Survey of the earth's physical environment, including distribution and associations between energy, climate, vegetation, and landforms. Human interrelationships with the physical landscape.

### 101L Geography and the Natural Environment Lab (2 Hrs) (1)\* (IO)

Analysis of the natural environment through the use of maps, airphotos, field and laboratory observation and experimentation. Emphasis on Hawai'i and upon human modification of the environment. Pre: credit or concurrent enrollment in Geog 101.

### 102 Geography of World Regions (3) (S)

Geographic survey of the world's major cultural regions. Processes of spatial integration and differentiation of economic, geo-political, and cultural landscapes. Natural resource distribution and the contrasts and linkages between the developed and under-developed world.

### 103 Geography and Contemporary Society (3) (S)

Examines aspects of culture such as population, agriculture, industry, and religion. Focus on the relationships between people and their environment and resulting regional contrasts.

### 105 Geography of the United States (3) (Y)

Major features of the United States. Emphasis on what gives character or distinctiveness to various places.

### 120 Weather and Climate of Hawai'i (3) (IO)

For non-science majors and prospective science teachers. Basic meteorology, sun-earth-ocean-atmosphere interrelationships, weather types, seasonal changes, trade winds, clouds, rainfall, with examples drawn from the local weather and climate. (Same as Phys 120)

### 201 Interpretation of Geographic Data (3) (Y)

Introduction to methods of analysis and display of a variety of geographical data. Map interpretation and design, including introduction to elementary computer mapping techniques, questionnaire design and administration, research techniques, and basic technical writing.

## Physical Geography

### 300 Climatology (3) (AY)

Elements and controls of climate. Dynamic processes of atmospheric circulation: the distribution patterns of solar radiation, temperature, precipitation, and evaporation. Energy and water balance concepts, climate classification. Pre: Geog 101 or consent of instructor.

### 301 Agricultural and Applied Climatology (3)\* (AY)

Effects of the atmospheric environment on plants, animals, and humans. Human modification of weather and climate. Meteorological instruments, and techniques of data collection and analysis. Pre: Geog 101; Bio 101 or 150 or 153; or consent of instructor.

### 309 Biogeography (3)\* (AY)

Basic evolutionary and ecological principles underlying the dynamics of plant and animal populations. Mechanisms of isolation, speciation, dis-

persal, migration, and competition as they affect past and present world distribution patterns. Island biogeography. Pre: Geog 101; Biol 101 or 150 or 153; or consent of instructor. (Same as Biol 309)

### **319 Natural Hazards and Disasters (3) (AY)**

Survey of origins, processes, distributions, and effects of hazardous physical forces: hurricanes, tornadoes, drought, floods, earthquakes, volcanism, landslides, erosion, and beach degradation. Hazard perception and adjustment by humans also considered. Pre: Geog 101 or consent of instructor.

### **320 Geomorphology (3)\* (AY)**

Processes of landform development at large and small scales. Theoretical and applied aspects, including human environment considerations. Field excursions may be required. Pre: Geog 101 or Geol 111 or equivalent. (Same as Geol 342)

### **326 Natural Resources (3)\* (AY)**

Philosophy and history of the conservation movement in the United States. Ecological considerations in the management of renewable and nonrenewable resources. Current conservation issues in Hawai'i. Pre: Geog 101 or consent of instructor.

## **Human Geography**

### **312 Agricultural Geography (3) (AY)**

Different types of agriculture, their location, and the cultural and environmental constraints operating to produce the resultant patterns. World food and hunger. Pre: one introductory Geography course. (Same as Ag 312)

### **321 Geography of Economic Activity (3) (Y)**

Factors influencing the distribution of economic activities at different spatial scales: world, national, local. Consideration of general theories of decision making for urban and industrial locations. Pre: Geog 103.

### **328 Cultural Geography (3) (Y)**

Concepts and methods of cultural geography. Adaptations and adjustments to environment in past and present societies. Pre: one introductory Geography course.

### **330 Population Geography (3) (IO)**

Recent geographic approaches to population problems and processes. Explores problems of population distribution, population growth, migration, and food supply.

### **387 Literature of the Environment (3) (Y)**

A study of modern nature writing and environmental issues in several genres. Students will explore how humans negotiate their place in a variety of physical environments. Pre: Eng 100 and one of the following: Eng 200, 251, 252, 253, or 254 or consent of instructor. (Same as Eng 387)

### **421 Urban Geography (3) (IO)**

Cities: their origins, functions, and physical structure. Problems of urban growth, decay, and adaptation; evolution of urban institutions. Pre: Geog 103 or consent of instructor.

## **Regional Geography**

### **332 Geography of the Hawaiian Islands (3) (Y)**

Introduction to the physical and human geography of Hawai'i. Development of island ecosystems. Polynesian pre-history, post-contact resource exploitation and environmental transformation. History of land tenure and management. Spatial aspects of agriculture, urbanization, and tourism. Pre: Geog 101 or 103, or consent of instructor.

### **335 Geography of Oceania (3 AY)**

Physical and human geography of the Pacific Islands region including Australia and New Zealand (excluding Hawai'i). Topics include: regional marine and terrestrial resources; human settlement and landscape transformation; population and political geography; economic development, and resource management and environmental issues.

### **350 Geography of Asia (3) (AY)**

Introduction to the lands and peoples of Asia. Emphasis on the physical and cultural features which characterize the geography of Asia.

### **435 Senior Seminar in Pacific Studies (3) (AY)**

A reading and research seminar under the supervision of the Pacific Islands Studies faculty aimed at demonstrating competence in research and writing on issues related to Pacific Islands environments, culture, society and economy. Pre: consent of instructor for students near completion of Pacific Islands Studies Certificate coursework. (Same as Anth 435)

## **Analytical Techniques**

### **375 Cartography (3) (AY)**

Principles and processes used in the design, compilation, production, and reproduction of thematic maps. Emphasis on maps as communication media. Pre: Geog 201 or consent of instructor. Basic computer skills are required.

### **380 Quantitative Methods in Geography (3) (AY)**

Application of statistical and mathematical models in a geographic context. The use of multivariate techniques in assessing spatial relationships. Pre: Geog 201 or consent of instructor.

### **385 Field Methods in Geography (3) (AY)**

Geographic field methods for regional analysis of physical and cultural landscapes. Instrumentation, collection, and evaluation of environmental, cultural, and economic data; planning and land management applications. Pre: Geog 201 or consent of instructor.

### **399 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

### **470 Remote Sensing and Air Photo Interpretation (3) (AY)**

Analysis of film and digital images of the Earth's surface collected from cameras and sensors aboard aircraft and satellites. Applications to resource planning, forestry, hydrology and geology. Pre: Geog 201 or consent of instructor.

### **480 Geographic Information Systems and Computer Mapping (3) (AY)**

Examination of sophisticated computer methods to display and manipulate maps. Focuses on how these systems work, what they do, and for what they are used. Emphasis on applications and hands-on experience. Pre: Geog 201 or consent of instructor.

### **494 Special Topics in Geography (1-3) (IO)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied.

### **498 Senior Thesis (6) (S)**

Individual research in problems of special interest. Pre: invitation by geography faculty.

## **Planning**

### **340 Principles of Land Use Planning (3) (Y)**

Land use planning and relationship of geographic concepts to urban, regional, and environmental planning. Emphasis on examples from Hawai'i.

### **440 Advanced Environmental Planning (3) (Y)**

Advanced topics in planning with emphasis on local land use plans, policies and ordinances as well as methodology for collection and analysis of data for environmental impact assessment. Pre: Geog 340.

### **496 Internship (3) (S)**

Juniors and seniors majoring in geography may undertake in-service training in government or private agencies. Pre: junior standing and consent of instructor.

\*Field trips are sometimes conducted outside of class hours.

## GEOLOGY (Geol)

**Office:** LS-2, (808) 974-7383

### Associate Professors:

James L. Anderson, Ph.D.

Carl E. Johnson, Ph.D.

Jené D. Michaud, Ph.D.

### Assistant Professor:

Ken Hon, Ph.D.

The Bachelor of Science program in Geology exposes students to the theory and application of a wide range of disciplines within the geosciences. The curriculum focuses on the composition, structure, history and dynamics of the Earth's crust. Hilo's unique natural setting on the slope of an active volcano makes it an ideal place to experience firsthand the more dynamic aspects of geology. Both laboratory and field activities are important components of the program, and students can expect to develop their descriptive, analytical and interpretive skills. Students will acquire a strong background in the basic sciences as they address geological problems using the tools of chemistry, physics and mathematics. Nearly half the students graduating from this program go on to pursue graduate degrees. The study of geology prepares students for careers in environmental science, natural resources and scientific research and scientific research on diverse topics including volcanism and earthquakes. Graduates who wish to pursue secondary science education are eligible to apply to the University's post-baccalaureate Teacher Education Program.

To earn a bachelor of science degree in geology a student must complete 120 semester hours, meet the UH Hilo General and Specific Requirements for a baccalaureate degree (including General Education), and complete the following requirements.

### Major requirements (42 hours)

Geol 111\*, 111L\*, 112, 112L, 212, 220, 330, 340, 342, 370, 494A, 494B, and twelve (12) additional semester hours in Geol courses numbered 300 and above.

### Supplemental requirements (31 hours)

General Chemistry (Chem 124\*, 124L, 125, 125L); General Physics (Phys 170\*, 170L, 171, 171L); Calculus (Math 205\*, 206); and Eng 309.

Courses marked with an asterisk (\*) also fulfill General Education requirements.

### Additional Requirements:

- A minimum of 32 hours at the 300- or 400-level.
- A grade of C (2.0) or better in any Geol course taken to fulfill major requirements.
- Hawaiian/Asian/Pacific requirement as listed earlier in Specific Degree Requirements.
- Writing Intensive (WI) course requirement as noted in Specific Degree Requirements.

### Minor in Geology: 21 semester hours

**Required:** Geol 111-111L, 112-112L, and 13 semester hours of geology electives. At least 6 semester hours must be at the upper-division level. Each course must be passed with a "C" grade or better.

### Minor in Earth and Space Science: 24 semester hours

**Required:** Geol 111-111L, 112-112L, 205; Astr 110L, 180, 181; Geol/Astr 384; Geol/Astr 386.

### 100 Environmental Geology (3)\* (S)

The concepts and natural processes of human interaction with the geologic environment. Geologic hazards and the degradation of our natural resources. The role of geology in sound policy making in urban and national planning for the optimum utilization of natural resources.

### 100L Environmental Geology Laboratory (1 2-hr. lab) (1) (S)

Develops skills in map interpretation, satellite and remote sensing, and the application of basic geological principles towards the understanding of man's relationship with the environment. Laboratory experiences in hazards mapping and assessment, environmental pollution, global change, and the management of our geological resources.

### 111 Physical Geology (3)\* (S)

The study of the earth, with emphasis placed on the materials, surface features, structures, and various erosional and depositional processes.

### 111L Physical Geology Laboratory (1 2-hr. lab) (1) (S)

The basic techniques of topographic map/air photo interpretation and rock and mineral identification as applied to principles of physical geology. Pre: Geol 111, which may be taken concurrently. (Optional)

### 112 Historical Geology (3)\* (Y)

The origin and evolution of the earth, its materials, structure, and life. The interpretation of earth history through techniques and recent developments in geochemistry, geophysics, planetary astronomy, and paleontology. Pre: Geol 111 or consent of instructor.

### 112L Historical Geology Laboratory (1 2-hr. lab) (1) (Y)

Includes topics on fossils and fossilization, measurement of geologic time, stratigraphy, biostratigraphy, geotectonics, paleoecology, sedimentology, and the interpretation of geological maps. Pre: Geol 112, which may be taken concurrently, and Geol 111L. (Optional)

### 194 Special Topics in Geology (1-3)\* (IO)

Topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied.

### 205 Geology of the Hawaiian Islands (3)\* (S)

A survey of the geological phenomena particular to the Hawaiian Islands, including volcanism, rock and mineral occurrences, landform development, and water resources.

### 210 Mineralogy (3 lec., 1 3-hr. lab) (4) (IO)

A systematic study of the more common minerals, involving their classification, origin, occurrence, chemical characteristics and uses. Laboratory work stresses characterization and identification of minerals according to their chemical and physical properties. Pre: Geol 111 and Chem 125, which may be taken concurrently, or consent of instructor.

### 211 Optical Mineralogy (2 lec., 1 3-hr. lab) (3) (IO)

Optical crystallography and the optical properties of common rock-forming minerals. Lab work stresses the use of the petrographic microscope in mineral identification, with an introduction to elementary x-ray crystallography. Pre: Geol 210.

### 212 Physical and Optical Mineralogy (3 lec., 1 3-hr. lab) (4) (AY)

A systematic study of the common minerals involving crystallography, optical properties, crystal chemistry, and occurrence. Laboratory work stresses identification of minerals in hand specimen and using the petrographic microscope. Pre: Geol 111 and either Chem 114 or 124 or consent of the instructor.

### 220 Petrology (3 lec., 1 3-hr. lab) (4) (AY)

An introduction to the study of rocks, including their origin, occurrence, composition and classification. Laboratory work involves the identification of rocks in hand specimen and thin section by means of composition and texture. Pre: Geol 212 or consent of instructor.

### 299 Directed Studies (1-3) (IO)

Statement of planned reading or research required. Pre: sophomore standing and consent of instructor.

### 311 Economic Geology (3) (IO)

The chief metallic and nonmetallic minerals, rocks and fuels that are of economic value to man; their origin, mode of occurrence, distribution exploitation, and utilization. Pre: Geol 220 or consent of instructor.



**315 Principles of Geochemistry (3) (AY)**

The geochemical processes that control the distribution of the chemical elements within the earth and in its atmosphere and hydrosphere; chemical thermodynamics, phase equilibria, and crystal chemistry as applied toward the study of natural systems. Pre: Geol 210 or consent of instructor.

**330 Structural Geology (2 lec, 1 3-hr. lab) (3)\* (AY)**

Effects and mechanics of deformation of the earth's crust, involving the description, classification, and origin of geologic structures. Aspects of geotectonics are considered. Pre: Geol 112 and prerequisites listed for Math 205, or consent of instructor.

**340 Stratigraphy and Sedimentology (2 lec, 1 3-hr. lab) (3) (AY)**

Emphasis on sedimentary processes, properties of sediments and sedimentary rocks, environmental interpretation, and stratigraphic principles and nomenclature. Required field trips. Pre: Geol 112.

**342 Geomorphology (3)\* (AY)**

Processes of landform development at large and small scales. Theoretical and applied aspects, including human environment considerations. Pre: Geog 101 or Geol 111 or equivalent. (Same as Geog 320)

**350 Paleontology (2 lec, 1 3-hr. lab) (3) (IO)**

Morphology and biologic relationships of fossil groups important in the correlation and ecologic interpretation of sedimentary rocks. Pre: Geol 112 or consent of instructor.

**360 Principles of Hydrology (3) \* (AY)**

Introduction to principles of hydrology. Topics include surface hydrology, hydro-meteorology, ground water occurrence and movement, and water quality. Introduction to measurement techniques, quantitative descriptions of hydrologic phenomenon, and practical applications. Pre: Geol 111, Geol 111L, and Math 104, or consent of instructor.

**362 Hydrogeology (3) (AY)**

Quantitative focus on aquifer properties, principles of groundwater flow, quantity and quality of groundwater resources, water chemistry, groundwater contamination and the role of groundwater in geologic processes. Pre: Geol 111, 111L, Chem 114 or 124, and Math 115 or 205.

**370 Field Methods (1 lec, 2 3-hr. lab) (3) (AY)**

Familiarization with field instrumentation and techniques. The study of methods used to collect, graphically represent, and interpret geological field data. Pre: Geol 330 or consent of instructor.

**380 Principles of Geophysics (3) (AY)**

Introduction to the nature of the earth's interior as determined by seismic, gravitational, magnetic and heat flow properties; methods of geophysical investigation, data reduction and interpretation. Pre: Geol 111, Phys 171-171L, or consent of instructor.

**384 Comparative Planetology (3) (AY)**

Study of the geology and geophysics of Earth-like planets and satellites in the solar system, with emphasis on understanding terrestrial geology in a broader, astronomical context. Topics covered: major processes determining structure and surface features of planets and techniques for remote sensing. Pre: Geol 112, Astr 180. (Same as Astr 384).

**386 Comparative Planetary Atmospheres (3) (AY)**

Study of the structure, dynamics, and evolution of the atmospheres of solar system planets and satellites, with emphasis on understanding the climatology and meteorology of the Earth in a broader, astronomical context. Discussions will include the stability of the Earth's climate and techniques of remote sensing. Pre: Geol 112, Astr 180. (Same as Astr 386).

**394 Special Topics in Geology (1-3)\* (IO)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: junior standing and consent of instructor.

**399 Directed Studies (1-3) (IO)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**430 Deformation Geodesy (2 lec, 1 3-hr. lab) (3) \* (IO)**

Theory and application of surveying techniques used to study deformation of the earth's surface. Includes ground-based aerial, and space-based methods. Laboratory work stresses actual surveying and analysis/interpretation of resulting data. Pre: Geol 111.

**431 Geology of North America (3) (AY)**

Survey of the structure, stratigraphy, and tectonic evolution of the North American continent from the Precambrian to Recent. Pre: Geol 330 or consent of instructor.

**445 GIS for Geology (2 lec, 1 3-hr. lab) (3) (AY)**

Representation of geological data using Geographical Information Systems (GIS). Introduction to theory, applications, and data analysis. Pre: Geol 111, CS 102 or Computer literacy, and upper-division standing.

**446 Advanced GIS for Geology (1 lec., 2 3-hr. lab) (3) (IO)**

Advanced topics in geographic information systems. Emphasis on geological applications, data acquisition and management, building new databases, and data analysis. Pre: Geol 445 or Geog 480.

**450 Geological Remote Sensing (2 lec, 1-2-hr. lab) (3) (IO)**

Application of remote sensing to volcanic hazards, global change, and geologic mapping. Exploration of both satellite and airborne sensor imagery with laboratory exercises focused on modern remote sensing visualization tools and interpretation of optical, thermal and thematic data suites. Pre: Geol 111 and CS 102 or consent of instructor.

**470 Volcanology (2 lec, 1 3-hr lab) (3)\* (AY)**

In-depth study of volcanic processes, products, and phenomena, including the classification of volcanic eruptions, evaluation of volcanic hazards, and an introduction to eruption monitoring. Pre: Geol 220 or consent of instructor.

**471 Volcano Monitoring (3) \* (Y)**

Survey of deformation, seismological, geochemical, and field mapping methods of monitoring active volcanoes, and their use in forecasting eruptions. Emphasis on field applications. Pre: Previous college credit in geology, mathematics, and other physical science, or consent of the instructor.

**472A Geochemical Monitoring of Active Volcanoes (1) \* (IO)**

Study and analysis of volcanic volatiles, including topics on chemical equilibria of fluids and gases, transport processes, analytical methods, and related natural hazards. Field and laboratory work emphasizes sampling procedures and analytical methods. Pre: Two years of chemistry, to include physical and/or analytical chemistry, or consent of instructor.

**472B Seismology of Volcanoes (1) \* (AY)**

Investigation of seismotectonic processes of active volcanoes, including sources of earthquakes, volcanic tremor, seismic tomography, and seismic methods for volcanic monitoring. Field deployment of portable seismographs and operation of telemetered, digital seismic networks. Pre: College credit in geophysics and calculus, or consent of instructor.

**472C Deformation Monitoring of Active Volcanoes (1) \* (IO)**

Theory, field skills, instrumentation, deployment strategies, and data reduction methods used to monitor ground deformation on active volcanoes. Emphasis on practical application. Pre: Structural geology and trigonometry/pre-calculus, or consent of instructor.

**495A-495B Seminar (1-1) Yr. (S)**

Seminar presentations of topics in the physical sciences by faculty, enrolled students and invited speakers. The first semester (495A) is taken CR/NC; in the second semester (495B), students are required to present a seminar for a letter grade. Pre: senior standing or consent of instructor. (Same as Astr 495A-495B, Chem 495A-495B, Phys 495A-495B and Math 495A-495B)

\*Field trips are sometimes conducted outside of class hours.

## HAWAIIAN STUDIES PROGRAM – See Ka Haka ‘Ula O Ke‘elikōlani College of Hawaiian Language for Hawaiian course listings.

## HEALTH AND PHYSICAL EDUCATION (HPE)

**Office:** Athletic Complex, (808) 974-7460

**Assistant Professor:**

Lincoln Gotshalk, Ph.D.

**Instructor:**

Robin Takahashi, M.Ed.

**101 Physical Fitness (1) (S)**

Conditioning exercises and activities to develop and maintain physical efficiency. Motor fitness tests administered to measure status and progress.

**102 Aerobics (1) (IO)**

Fundamental principles of aerobic exercise done to music. Physical and mental development training for total body maintenance and efficiency. Development of individual's own aerobic fitness program.

**103 Swimming: Beginning (1) (Y)**

Adjusting to water, immersing in water, floating, sculling, correct arm stroke, leg kick, breathing techniques and their coordination.

**104 Swimming: Intermediate (1) (IO)**

Perfecting and integrating basic strokes with added emphasis on swimming for distance and speed.

**107 Tennis: Beginning (1) (S)**

Rules, etiquette, grip, forehand and backhand strokes, serving, volleying, singles and doubles play.

**108 Tennis: Advanced (1) (S)**

Improving the serve, forehand and backhand strokes, volleying, chop strokes, competitive strategy, problems in rules.

**110 Golf: Beginning (1) (Y)**

Rules, etiquette, and skill (grip, stance, stroke) in using the irons, woods, and putter. Driving range and play on golf course require additional fees.

**111 Golf: Advanced (1) (IO)**

Improving drive, fairway wood shots, long iron shots, control shots, trouble shots, putting, course management, competitive strategy, problems in rules. Actual play on golf course requires additional fees.

**112 Archery (1) (Y)**

Skills, knowledge, attitudes, and appreciation, including field experiences. Equipment provided.

**115 Bowling (1) (IO)**

Rules, etiquette, arm swing, approach, execution, scoring, spare pick-ups. Class participation at bowling alley requires additional fees.

**117 Mountain Biking (1) (S)**

Basic knowledge and skills of mountain biking. Emphasis will be placed on the safe operation and maintenance of the bike for recreational purposes. Uses such as commuting and racing will be discussed.

**120 Badminton (1) (Y)**

Rules, etiquette, grip, forehand and backhand strokes, serving, smash, drive, netplay, offensive and defensive strategy in singles and doubles play.

**121 Advanced Badminton (1) (IO)**

Competitive singles and doubles strategy, rules, etiquette. Perfecting fundamental strokes: smash, clear, drops, net, and drive shots.

**126 Rhythmic Activities (1) (IO)**

Social dances including ballroom and mixers, emphasizing techniques, composition, design, dynamics, theme, rhythm, and form.

**134 Volleyball: Beginning (1) (Y)**

Rules, fundamental skills of passing, setting, hitting, blocking, digging, and team strategies.

**135 Volleyball: Advanced (1) (IO)**

Perfecting fundamental skills, advanced hitting, play sets, and strategies.

**136 Team Sports (1) (Y)**

Skills, knowledge, attitudes and appreciation. Combination of soccer and softball.

**137 Team Sports (1) (IO)**

Skills, knowledge, attitudes and appreciation. Combination of flag football and speedball.

**138 Basketball: Beginning (1) (Y)**

Rules, etiquette, skills in footwork, body balance, passing, shooting, dribbling, rebounding, individual and team strategies, and plays.

**139 Basketball Advanced (1) (IO)**

Improving fundamental skills, advanced strategies, ball control and shooting skills, offensive and defensive tactics, officiating.

**152 Weight Training (1) (S)**

Fundamental techniques of weight training which includes safety and precautions, diet and nutrition, basic weight training principles and individualized exercise programs for total physical fitness.

**161 Aikido (1) (Y)**

Ki training (mind-body unity), principles of etiquette, basic exercises. Six basic throws and other selected kata, and breathing exercises.

**201 School Health Problems (2) (Y)**

Responsibilities of the elementary school teacher in recognizing and meeting pupil's needs, teacher's role in health instruction, health services, healthful school living, school health policies.

**203 Introduction to Physical Education (2) (IO)**

Nature, scope, aim and objectives of physical education; basic principles of human movement; physical education as an academic discipline and its relationship to fields such as recreation, health education, and athletics.

**204 Introduction to Coaching Athletics (2) (S)**

Nature, responsibilities, personal and professional requirements of a coach. Scientific principles applicable to coaching methodology and athletic competition.

**206 Basic Human Movement (3) (Y)**

Developing skills to understand the nature and function of human movement in every day life, sport, dance, physical education, and adapted movement activities.

**207 Basic Human Nutrition (3) (Y)**

Fundamental principles of normal nutrition and the importance of nutrition in promoting growth and health.

**208 Elementary Tests and Measurements (3) (Y)**

Basic understanding and appreciation of the why and how of testing in health, physical education and athletics. The development and evaluation of neuromuscular and organic abilities and the handling of test data by elementary statistical methods will be covered.

**232 Safety Procedures and Accident prevention (2) (Y)**

Understanding the fundamental principles and techniques of safety and accident prevention in school, home, work, motor vehicle, and recreational situations.

**233 Physical Education: Elementary (3) (S)**

Content and methods for physical education in elementary school. Selection, planning, teaching, evaluation of movement skills, and activities.

**234 Care and Prevention of Athletic Injuries (3) (Y)**

Fundamentals in athletic training and sports medicine designed to introduce principles and concepts in prevention and treatment of sports-related injuries. Additional fees required.

**263 Intramural Athletics (2) (Y)**

The organization, administration, and supervision of intramural sports programs in schools with emphasis on leadership, program content, facilities, scheduling, rules and regulations, promotion, financing, and evaluation.

**294 Special Topics in Health and Physical Education (1-3) (S)**

Topics chosen by instructors. The course content will vary. It may be repeated for credit, provided that a different topic is studied.

**300 Psycho-social Aspects of Sport (3) (Y)**

The functions and dysfunctions of the sporting system will be examined from sociological perspectives. In addition, specific psychological constructs are presented in order to examine the relationship between environmental sources of influence and the individual's capacity for self-management in the sporting world.

**320 Drug Awareness (3) (S)**

For students interested in the prevention and treatment of victims of legal and illegal use, misuses, and abuse of drugs and related substances. Examines the problems and consequences of people who have to deal with this dilemma.

**334 Advance Care and Prevention of Athletic Injuries (3) (Y)**

An in-depth understanding and appreciation of the prevention, management, and care of athletic injuries. Application of tape and braces for prevention and management of injuries and first aid and CPR certification will also be covered. Pre: HPE 234, Biol 243-244 and Biol 243-244L.

**343 Musculoskeletal Anatomy (3) (Y)**

Basic understanding of human anatomy from the perspective of movement, with emphasis on the skeletal and muscular systems. Pre: Biol 243-244 and Biol 243L-244L.

**348 Exercise Physiology (3) (Y)**

Basic understanding of human physiology and its response to exercise and adaptations to various types of training. Physiological systems are reviewed as they respond to acute bouts of exercise and long-term exposure to exercise. Pre: Biol 125.

**394 Special Topics in Health and Physical Education (1-3) (S)**

Advanced topics chosen by the instructor. The course content will vary. Course may be repeated for credit, provided that a different topic is studied. Pre: HPE 206.

**494 Special Topics in Health and Physical Education (1-3) (S)**

Advanced topics chosen by the instructor. The course content will vary. Course may be repeated for credit, provided that a different topic is studied. Pre: HPE 206 and junior standing.

**HISTORY (Hist)**

**Office:** EKH 214A, (808) 974-7460

**Professors:**

Gary D. Best, Ph.D.

Sandra Wagner-Wright, Ph.D.

**Assistant Professor:**

Michael J. Bitter, Ph.D.

The study of history opens windows to the world, and teaches students discipline, analysis, research and writing skills, and critical thinking while they develop an appreciation for their own and other peoples' cultures across time. Majors in other disciplines also find history courses attractive and useful, since the department offers both traditional and topical courses that complement other fields of study. Business, philosophy, geography, political science, natural science, and other majors gain increased understanding of their respective fields as they learn the historical processes that affected them. Many students majoring in other fields take sufficient history courses to qualify for the minor in history.

The University of Hawai'i at Hilo also has a chapter of Phi Alpha Theta, the international honor society in History.

**Major: 36 semester hours of which 30 semester hours must be in upper-division (300-400 level) history courses.** Students may select either Plan A (thesis program) or Plan B (non-thesis program).

**Thesis Program**

1. Complete one of the following two-semester introductory surveys: History 151-152 or 281-282;
2. Complete 12 semester hours of upper-division courses concentrated in one of the following fields: United States, Asia and the Pacific, or Europe;
3. Complete an additional 12 semester hours of upper-division courses of which at least 3 semester hours must be taken from each of the other two fields; and
4. Complete History 490-491.

**Non-Thesis Program**

1. Complete one of the following two-semester introductory surveys: History 151-152 or 281-282;
2. Complete 15 semester hours of upper-division courses concentrated in one of the following fields: United States, Asia and the Pacific, or Europe; and
3. Complete an additional 12 semester hours of upper-division courses of which at least 6 semester hours must be taken from each of the other two fields.
4. Complete History 490.

**Minor: 15 semester hours of history courses at the 300-400 level**

**Prerequisites for Upper-Division History Courses:** Completion of one of the introductory surveys (History 151-152 or 281-282); or consent of instructor is required for registration in any upper-division history course.

## Introductory Surveys

### 151, 152 World Civilization (3/3) Yr. (Y/Y)

Development of the civilizations of the world from their prehistoric origins to the present. Hist 151: to the 17th century; Hist 152: from the 17th century to the present. Equivalent to Hist 151-152 at Mānoa. Satisfies Mānoa's World Civilization graduation requirement. Prerequisite for upper-division courses.

### 281, 282 American History (3-3) Yr. (AY/AY)

An interpretive survey of United States history. 281: 1500 to 1877; 282: 1877 period to the present.

## Upper-Division Courses in Asian and Pacific History

### 310, 311 History of Japan (3/3) Yr. (AY/AY)

310: Japanese culture from earliest times to the mid-19th century. 311: Japanese history from the mid-19th century to the end of World War II. Pre: Consent of instructor. (Same as JpSt 310; 311)

### 312, 313 History of China (3-3) Yr. (AY/AY)

312: Chinese culture from earliest times through the Ming Dynasty. 313: Chinese history from the Ch'ing period through the 1940's with emphasis on China's response to the West, reform movements in the 19th century, the revolution of 1911, and the establishment of the People's Republic of China. Pre: Consent of instructor.

### 316, 317 History of Oceania (3/3) Yr. (AY/AY)

316: Melanesia, Micronesia and Polynesia from European exploration, annexation and exploitation to 1945. 317: Melanesia, Micronesia and Polynesia since 1945: Decolonization, independence and the search for identity in the contemporary world.

### 374 History of Hawai'i (3) (Y)

Political and social history of Hawai'i with emphasis on Hawai'i's foreign relations from 1778 to the contemporary period.

### 379 History of Entrepreneurship in America

The role of entrepreneurship in developing the American business system from its European origins to its current global manifestations and its future prospect. Focus on the value, characteristics, and practices of entrepreneur and on the changing relations over time between business, labor and government (Same as MGT 379).

### 391 Women: A Global Perspective (3) (AY)

Modern & contemporary issues affecting women from African, Asian, Latin American, Islamic & Pacific cultures. History, cross-cultural contact & the impact of modern political, social & economic systems will be emphasized in conjunction with theoretical perspectives. (Same as Rels 391 and WS 391)

### 417 History of Japan: 1945 to the Present (3) (AY)

Japanese society, political culture, foreign relations, and economic development since 1945. Pre: Consent of instructor. (Same as JpSt 417)

### 418 The Chinese People's Republic (3) (AY)

The history of China since 1945. Civil War, 1945-1949; establishing the new order, 1949-1955; the Great Leap Forward; the Termidorian Reaction, 1960-1965; the Great Proletarian Cultural Revolution; the People's Republic and the International Community; the Four Modernizations; after Mao: the search for a new order.

### 476 United States in the Pacific (3) (AY)

Emergence of the United States as a Pacific power; cultural, economic and political expansion of the United States into the Pacific, including Hawai'i; relations with other Pacific nations, especially those of East Asia.

## Upper-Division Courses in European History

### 319 European Women's History (3) (AY)

Study of European women from pre-history to the 20th century with emphasis on women's social and cultural roles in western history. Modern feminist theories will also be studied. Pre: Hist 151, 152 or consent of instructor. (Same as WS 319)

### 320 Germany Since 1815 (3) (AY)

Development of Germany since 1815 in political, social, and economic fields. Special emphasis on the two World Wars and the rise of totalitarianism. Pre: Hist 151, 152, or consent of instructor.

### 325, 326 Modern War (3-3) Yr. (AY/AY)

An examination of the causes, course, results, and influence of modern wars on societies. Organization, composition, strategy, tactics, logistics, social, and technological implications. 325: Louis XIV to World War I; 326: since World War I. Pre: consent of instructor.

### 330 Modern France Since 1789 (3) (AY)

Development of modern France since 1789 in political, economic, and social areas. Special emphasis on the changed position of France in its European setting. Pre: Hist 151, 152, or consent of instructor.

### 343 Medieval Europe: 200 A.D.-1500 (3) (AY)

Social intellectual and political history of western Europe from the fall of the Roman Empire to 1500 with emphasis on England and France (Same as Rels 343)

### 344 Early Modern Europe: 1500-1789 (3) (AY)

Social intellectual and political history of western Europe from 1500-1789 with emphasis on the Iberian peninsula, Italy, England and France. (Same as Rels 344)

### 345, 346 Ideas in Modern Europe (3-3) (AY/AY)

Intellectual and cultural development of Europe since 1789. Ideas in the arts, philosophy, science, literature, and politics as they have affected Europe. 345: 1789-1900; 346: since 1900.

### 349, 350 History of Russia (3-3) Yr. (AY/AY)

Development of Russian thought and institutions and territorial expansion. 349: to 1800; 350: since 1800. Pre: Hist 151, 152, or consent of instructor.

### 351 Russia Since Peter the Great

The development of Russian thought, society, government and institutions from 1700 to the Second World War. Special emphasis on Russian westernization and reform as they were encouraged or abandoned during the reigns of Russian leaders from Peter the Great through Stalin.

### 439 Europe in the Nineteenth Century (3) (IO)

Major political, social, economic, and intellectual trends in the evolution of Europe from Napoleon to the end of World War I. Pre: Hist 151, 152, or consent of instructor.

### 440 Europe Since Versailles (3) (IO)

Problems of contemporary Europe and their historical background. Pre: Hist 151, 152, or consent of instructor.

## Upper-Division Courses in American History

### 360 American Women's History (3) (AY)

Study of American women from the 17th to the 20th centuries. Special emphasis will be on women's social and cultural roles. Current theories of feminization and current women's issues will also be studied. Pre: Hist 151, 152 or consent of instructor. (Same as WS 360)

**371, 372 History of U.S. Foreign Relations (3/3) (AY/AY)**

Diplomatic, cultural, and economic relations of the United States with other countries; expansion of U.S.; politics and foreign policy; major problems for American foreign policy makers. 371: from colonial times to 1900; 372: from 1900 to the present.

**379 History of Entrepreneurship in American (3) (AY)**

The American free enterprise system from its European origins; the role of business and finance in American expansion; relations of business and finance with labor and government. (Same as Mgt 379)

**460 Birth of a Nation: U.S. 1620-1840 (3) (AY)**

Establishment of the United States from a political, social and intellectual perspective with special emphasis on America's place in the British Empire, the causes of the Revolution, the development of republican government and Jacksonian democracy.

**463 Crisis of Union: U.S. 1841-1877 (3) (AY)**

Major political, social and demographic events of the period including the westward movement, the Mexican War, immigration, nativism, abolition, sectionalism, industrialization, Civil War and Reconstruction.

**464 The Transformation of the American Nation: 1877-1920 (3) (AY)**

The legacy of Reconstruction, industrialism, dissent and reform, emergence of the U.S. as a world power, World War I and its aftermath.

**465 U.S. History, 1920-1941 (3) (AY)**

The history of the United States during the period between the world wars, the end of the progressive era, the triumph of Harding and normalcy, keeping cool with Coolidge, Hoover and the great depression, FDR and the New Deal, and the road to World War II.

**466 U.S. History, 1941 to Present (3) (AY)**

The history of the United States during the period since 1941 and the coming of World War II. Truman and the Fair Deal, McCarthyism, the Cold War, Korea, the Ike years. Kennedy and the New Frontier, Viet Nam, LBJ, Nixon and Watergate, and the U.S. today.

**476 United States in the Pacific (3) (AY)**

Emergence of the United States as a Pacific power; cultural, economic and political expansion of the United States into the Pacific, including Hawai'i; relations with other Pacific nations, especially those of East Asia.

## Special Courses in History

**394 Special Topics in History (3) (S)**

Advanced topics chosen by the instructor. The course content will vary. May be repeated for credit, provided that a different topic is studied: b) American, c) European, d) Asian. Pre: junior standing or consent of instructor.

**490 Historiography and Research Methods (3) (S)**

Course focuses on historiography and research methods in history, resulting in a research paper in the student's area of emphasis. Required of all history majors. Offered on CR/NC basis. Pre: senior standing.

**491 Senior Thesis (3) (S)**

Course focuses on the writing of a thesis paper on a topic in the student's area of emphasis. Required of history majors selecting the Thesis option. Recommended for students planning to enter graduate programs. Pre: Hist 490.

**492 Internship (1-6) (S)**

The gathering and processing of materials on local history. Students may also work with local historical societies. May be repeated up to a total of 12 credits. Pre: consent of instructor.

**494 Special Topics in History (1-3) (S)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. b) American, c) European, d) Asian. Pre: senior standing and consent of instructor.

**499 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

## HONORS (Honor)

**Office:** EKH 244, (808) 974-7593

**Honors Advisory and Policy Committee:**

Jerry M. Calton, Ph.D.  
Douglas Mikkelson, Ph.D.  
Donald Price, Ph.D.  
Christopher A. Reichl, Ph.D.  
Jennifer Wheat, Ph.D.

The UH Hilo Honors Program is designed to motivate, challenge, and enrich outstanding students, in order to promote their intellectual curiosity, nurture their intellectual independence, and deepen their sense of scholarship. Honors students are outstanding in their desire for learning, demonstrated ability, and intellectual enthusiasm. To be admitted to the University Honors Program is a privilege reserved for those students whose intellectual capacities and motivation enable them to take advantage of the program's unique learning opportunities, including specially designed interdisciplinary Honors General Education courses, enriched Honors sections of regularly scheduled courses, and small group or one-on-one tutorials with outstanding research and teaching faculty of the University. Neither a separate degree program nor a major, the program is a pathway designed to allow exceptional students to fulfill some General Education and academic major requirements in a unique community of scholars.

Students are admitted to the program on the basis of an application to the Honors Advisory and Policy Committee. Students who are admitted to the program will complete eighteen credits of the following requirements, which can also be used to fulfill General Education and major requirements. Under the new general education program, each of the two courses taken in the Hon 200-203 sequence must be designated as a social science or humanities elective.

**Two Honors courses (6 credits)**

**Additional course work (minimum of 9 credits)** selected from among Honors courses, Honors designated sections of regularly scheduled courses (e.g. English 100H, reserved for Honors students and other students who demonstrate high quality writing skills), Honors tutorials, Honors summer reading examinations, Honors directed studies.

**Senior Honors Thesis (3 credits)** (It is anticipated that the thesis will be written with a faculty member in the student's major department and that credits earned in this way will count toward the student's major.)

**100 Honors Colloquium (3) (IO)**

An intensive course in reading, writing, and thinking about major issues with emphasis placed upon interdisciplinary approaches. Students introduced to a representative group of faculty. The colloquium uses a seminar format and will encourage the development of a community of scholars. Pre: Honors student or consent of instructor.

**200 Foundations of Western Civilization (3) (AY)**

An interdisciplinary introduction to the Greco/Roman/Judaic/Christian foundations of the Western world. A study of the art, drama, literature, history, philosophy and scientific contributions of the ancient world. Pre: Honors student or consent of instructor.

**201 Development of Western Civilization (3) (AY)**

An interdisciplinary study of the development of Western culture and values in the Medieval Age, Renaissance, Reformation and Scientific Revolution. Considers the art, drama, literature, history, social and political institutions, philosophy and science of this period. Pre: Honors student or consent of instructor.

**202 Foundations of Asian Civilization (3) (AY)**

An interdisciplinary study of the roots of Asian thought and culture. A study of the religious and philosophical traditions of India and China forms a basis for understanding the art, literature, drama, music, history, and social and political institutions in India, China, Japan, Korea, and South East Asia until 1200-1300. Pre: Honors student or consent of instructor.

**203 Development of Asian Civilization (3) (AY)**

An interdisciplinary seminar on the development of contemporary Asian thought and culture. Examination of patterns in social structure, ethnic relations, religion and cosmology, with comparative views of Asian societies from 1200-1300 AD through the ethnographic present. Pre: Honors student or consent of instructor.

**292 Course-Linked Tutorial (1)**

Tutorial taken in connection with a 200-level course. Statement of planned reading or research required.

**293 Summer Reading Exam (1-2)**

An examination based upon a prearranged reading list. Taken during the first six weeks of the fall semester of the sophomore year.

**299 Directed Study Tutorial (1-3)**

Statement of planned reading or research required. Pre: Sophomore standing and consent of instructor.

**392 Course-Linked Tutorial (1)**

Tutorial taken in connection with a 300-level course. Statement of planned reading or research required.

**393 Summer Reading Exam (1-2)**

An examination based upon a prearranged reading list. Taken during the first six weeks of the fall semester of the junior year.

**399 Directed Study Tutorial (1-3)**

Statement of planned reading or research required. Pre: Junior standing and consent of instructor.

**490 Honors Senior Thesis (3)**

Composition of a senior thesis under the direction of a thesis committee.

**492 Course-Linked Tutorial (1)**

Tutorial taken in connection with a 400-level course. Statement of planned reading or research required.

**493 Summer Reading Exam (1-2)**

An examination based upon a prearranged reading list. Taken during the first six weeks of the fall semester of the senior year.

**496 Honors Teaching Fellow (1-3) (Y)**

Practice in individual tutoring, mentoring, and in the preparation and presentation of selected topics in Honors courses or Honors-designated sections of the student's major department, under direct instructional supervision. May be taken for honors credit, as well as credit to upper division major elective, with consent of major department chair. Pre: 12 Honors credits, consent of Honors Program Director and supervising instructor.

**499 Directed Study Tutorial (1-3)**

Statement of planned reading or research required. Pre: Senior standing and consent of instructor.

**INTERDISCIPLINARY STUDIES (IS)****199 Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required.

**210 Bibliography and Use of Library Material (3) (IO)**

Various types of services and resources available at the UH Hilo Edwin H. Mookini Library. Evaluation of the basic reference and bibliographic sources essential for independent library research.

**251 Japan Summer Study Tour (2) (IO)****299 Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing.

**351 Methodology of Foreign Language Teaching (3) (IO)**

Foreign language teaching and learning from the perspective of theory and practice. The application of modern linguistics to specific problems confronting the teacher. (Same as Ling 351)

**393 Foreign Field Experience (Arr) (3-15)**

Academic coursework, research, or internship in foreign locations which may transfer into specific disciplines after its completion. D = Denmark, E = England, F = France, H = Hong Kong, J = Japan, K = Korea, P = People's Republic of China, R = Republic of China (Taiwan), T = Thailand. Foreign field experiences are not limited to the countries listed. May be repeated for credit.

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**JAPANESE STUDIES (JpSt)**

**Office:** EKH 214, (808) 974-7479

**Professors:**

A. Didrick Castberg, Ph.D.  
Hsueh-Li Cheng, Ph.D.  
Lawrence Rogers, Ph.D.

**Associate Professors:**

Masafumi Honda, Ed.D.  
Douglas Mikkelson, Ph.D.  
Christopher A. Reichl, Ph.D.

**Assistant Professor:**

Enbao Wang, Ph.D.

**Instructors:**

Hirokuni Masuda, Ph.D.  
Yoshiko Okuyama, Ph.D.

The Japanese Studies major is a program of significant multi-disciplinary study of Japanese civilization centering on a core of language study. It should be of special interest to students contemplating graduate study on Japan, students considering careers in tourism, journalism, government service, international business, and anyone simply interested in Japanese society and culture.

**Major: 40 semester hours**

1. Language core: (For non-native speakers of Japanese only) Jpns 101-102, 201-202, 301-302 (22 semester hours).
2. Non-language core: (For native speakers of Japanese only) Ling 102, 121, 321, 324, JpSt 425, any two upper division writing intensive courses (21 semester hours).
3. A total of 18 semester hours in Japan-related courses from at least two of the following three blocks:

**Block I:** JpSt 310, 311, 353, 356, 358, 390, 417, 494

**Block II:** JpSt 315, 365, 375, 381, 430, 450, 494

**Block III:** JpSt 340, 394, 401\*, 402\*, 425, 451, 452, 481, 482, 494

\*Non-native speakers only.

**Minor: 22 semester hours**

Jpns 101-102; 201-202  
Jpns 356 and JpSt 310 or 311 or 417

Interested students must see the Japanese Studies advisor during the first two years of language study.

**101-102 Elementary Japanese (4-4) Yr. (S)**

Development of listening, speaking, reading, writing. Structural points introduced inductively. Laboratory drill. (Not more than four credits will be granted for the completion of both Jpns 101 and Jpns 121 at Hawai'i Community College.) (Same as Jpns 101-102)

**201-202 Intermediate Japanese (4-4) Yr. (S)**

Continuation of Jpns 102. More advanced colloquial structures and *kanji*. Pre: Jpns 102 or equivalent. (Same as Jpns 201-202)

**299 Directed Studies (1-3) (S)**

Permission of the instructor and statement of planned reading or research required. Pre: sophomore standing.

**301-302 Third-Year Japanese (3-3) Yr. (S)**

Study of modern spoken and written Japanese involving advanced structures, expressions, patterns, *kanji*. Pre: Jpns 202 or equivalent. (Same as Jpns 301-302)

**310-311 History of Japan (3-3) Yr. (AY)**

Japanese culture from earliest times to the mid-19th century; and from the mid-19th century to the end of World War II. Pre: Consent of instructor. (Same as Hist 310-311)

**315 East Asian Religions (3) (AY)**

The development of Buddhism, Confucianism, Taoism, Shinto and folk religion in China, Korea and Japan. Pre: Junior standing or consent of instructor. (Same as Rels 315)

**340 Japanese Composition (3) (AY)**

Writing compositions employing designated patterns, *kanji*, and themes. Pre: Jpns 202 or equivalent. (Same as Jpns 340)

**353 Politics of Japan (3) (Y)**

Aspects of Japanese politics, emphasizing the post-1945 period. Topics include political development and change, the political economy of Japan, major political institutions and organizations, policy-making processes, and controversial political issues. (Same as PolS 353)

**356 Japan (3) (Y)**

Culture origins and development with emphasis on contemporary Japanese culture. (Same as Anth 356)

**358 Japanese Immigrants (3) (Y)**

Examination of social and cultural adaptations of Japanese immigrant populations, with foci on Hawai'i and Brazil. Topics include the role of the Japanese government and emigration companies, the factors of generation, kinship, ethnicity, and contemporary Japanese migrants. (Same as Anth 358)

**365 Japanese Literature in English (3) (AY)**

Survey of major works from earliest times to the present. Knowledge of Japanese is not required. (Same as Jpns 365, Eng 365)

**375 Japanese Music (3) (AY)**

Traditional, contemporary, and Western-influenced music of Japan based upon historical survey and study of major genres of Japanese music. No previous musical knowledge is required. Pre: junior standing or consent of instructor. (Same as Mus 375)

**381 Art of Japan (3) (AY)**

The history of art in Japan with emphasis on Buddhist art, the relationships between Chinese and Japanese arts. No prerequisites necessary for

juniors and seniors - others admitted by special permission. (Same as Art 381)

**390 Japanese Culture and Civilization (3) (IO)**

A multidisciplinary study of Japanese civilization including anthropology, art, history, linguistics, literature, music, philosophy, political science and religion.

**399 Directed Studies (1-3)**

Permission of the instructor and statement of planned reading or research required. Pre: junior standing.

**401-402 Fourth-Year Japanese (3-3) Yr. (AY)**

Study of modern spoken and written Japanese involving advanced structures, expressions and additional *kanji*. Pre: Jpns 302 or equivalent. (Same as Jpns 401-402)

**417 History of Japan: 1945 to the Present (3) (AY)**

Japanese society, political culture, foreign relations, and economic development since 1945. Pre: Consent of instructor. (Same as Hist 417)

**425 Translation Workshop (3) (AY)**

Theory and practice of translation of Japanese materials into English. Emphasis on literary translation, but non-literary texts may also be considered. Pre: Jpns 302 or consent of instructor. May be repeated once for credit. (Same as Jpns 425)

**430 Philosophy of Zen (3) (AY)**

Chief philosophical teachings of Zen, its methods and cultural influences. Comparative study of Zen and Western thought. Pre: previous work in philosophy or religious studies, or consent of instructor. Phil 302 is recommended. (Same as Phil 430, Rels 430)

**450 Mahayana Buddhist Philosophy (3) (AY)**

Important tenets and major schools of Mahayana Buddhist philosophy in India, China, Japan, Tibet, and Hawai'i. Comparative study of Mahayana and Western philosophy. Pre: previous work in philosophy, religious studies, or consent of instructor. Phil 302 is recommended. (Same as Phil 450, Rels 450)

**451-452 Structure of Japanese (3-3) Yr. (AY)**

Phonology, morphology, syntax of modern colloquial grammar. Pre: Ling 102 and Jpns 202, or consent of instructor. (Same as Ling 451-452, Jpns 451-452)

**481-482 Readings in Modern Japanese Literature (3-3) Yr. (IO)**

Reading and discussion in Japanese of selected works of fiction, poetry, and drama. Pre: Jpns 302 or consent of instructor. May be repeated once for credit. (Same as Jpns 481-482)

**494 Special Topics in Japanese Studies (3) (IO)**

Advanced topics selected by the faculty in Japanese Studies.

**499 Directed Studies (1-3)**

Permission of the instructor and statement of planned reading or research required. Pre: senior standing.

**LANGUAGES**

Office: EKH 214, (808) 974-7479

**Professor:**

Lawrence Rogers, Ph.D.

**Associate Professor:**

Masafumi Honda, Ed.D.

**Instructors:**

Kamila Dudley, M.A.

Hirokuni Masuda, Ph.D.

Faith Mishina, M.A.

Yoshiko Okuyama, Ph.D.



The Language Department offers instruction in Chinese, French, Japanese and Spanish, and related courses in literature and culture. Each program is comprehensive in approach, developing the functions of speaking, listening, comprehension, reading and writing.

The Language Department does not offer a Languages major. See Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language and Japanese Studies Programs for related majors.

## CHINESE (Chns)

### 101-102 Elementary Chinese (4-4) Yr. (Y)

Development of listening, speaking, reading and writing Mandarin Chinese. Structural points introduced inductively. Laboratory drill.

### 201-202 Intermediate Chinese (4-4) Yr. (IO)

Second-level training in listening, speaking, reading and writing skills. Pre: Chns 101-102 or consent of the instructor.

## FRENCH (Fr)

Students who have demonstrated competence in French in high school will not be admitted to Fr 101 and must take a placement test before enrolling in a course in French.

### 101-102 Elementary French (4-4) Yr. (Y)

Conversation, laboratory drill, grammar, reading, using film strips, interactive software, slides and tapes.

### 111 Traveling in France and Western Europe (3) (Y)

Introduction of basic culture, civilization and language survival skills for travel in France and the neighboring countries of Western Europe to minimize travel difficulties and to learn more about area to be visited.

### 111L Traveling in France and Western Europe (1) (Y)

Studies of oral communication in French using CD-ROM, tapes, videos and classroom conversation to prepare students to benefit from travel in France. Pre: FR 101 or permission of the instructor. (Must be taken with FR 111)

### 150 Basic Conversational French (3) (Y)

Basic conversation vocabulary and structure enabling students to express themselves in French. Emphasis will be on pronunciation, grammar and vocabulary skills in the context of everyday situations. Offered only in the Summer session.

### 201-202 Intermediate French (4-4) Yr. (Y)

Reading, conversation, laboratory drill, composition, using film strips, interactive software, slides and tapes. Pre: Fr 102 or equivalent.

### 299 Directed Studies (1-3) (S)

Permission of the instructor and statement of planned reading or research required.

### 311-312 Advanced Conversation and Composition (3-3) Yr. (IO)

Major emphasis on strengthening oral and written language skills through reading and discussion of current French-language periodicals, writing informal essays, grammar review, and laboratory drills. Video tapes, movies, interactive software, and film strips also will be used. Pre: Fr 202 or equivalent.

### 394 Special Topics in French Culture (3) (IO)

Advanced topics chosen by instructor. Course content will vary. May be repeated for credit, provided that a different topic is studied. Pre: Fr 102 or equivalent.

### 399 Directed Studies (1-3) (S)

Permission of the instructor and statement of planned reading or research required. Pre: junior standing.

### 499 Directed Studies (1-3) (S)

Permission of the instructor and statement of planned reading or research required. Pre: senior standing.

## HAWAIIAN (Haw)

See Ka Haka 'Ula O Ke'elikōlani College of Hawaiian Language for Hawaiian course listings.

## JAPANESE (Jpns)

Students who have demonstrated competence in Japanese in high school will not be admitted to Jpns 101 and must take a placement test before enrolling in a course in Japanese.

### 101-102 Elementary Japanese (4-4) Yr. (S)

Development of listening, speaking, reading, writing. Structural points introduced inductively. Laboratory drill. (Not more than four credits will be granted for the completion of both Jpns 101 and Jpns 121 at Hawai'i Community College.) (Same as JpSt 101-102)

### 105 Accelerated Elementary Japanese (8) (Y)

Development of listening, speaking, reading and writing. Structural points introduced inductively. Laboratory drill. Equivalent to Jpns 101-102. Offered only in the Summer session.

### 201-202 Intermediate Japanese (4-4) Yr. (Y)

Continuation of Japanese 102. More advanced colloquial structures and additional *kanji*. Pre: Jpns 102 or equivalent. (Same as JpSt 201-202)

### 299 Directed Studies (1-3)

Permission of the instructor and statement of planned reading or research required. Pre: sophomore standing.

### 301-302 Third-Year Japanese (3-3) Yr. (Y)

Study of modern spoken and written Japanese involving advanced structures, expressions, and *kanji*. Pre: Jpns 202 or equivalent. (Same as JpSt 301-302)

### 340 Japanese Composition (3) (AY)

Writing compositions using designated patterns, *kanji*, and themes. Pre: Jpns 202 or equivalent. (Same as JpSt 340)

### 365 Japanese Literature in English (3) (AY)

Survey of major works from earliest times to the present. Knowledge of Japanese is not required. (Same as Eng 365, JpSt 365)

### 394 Special Topics in Japanese (1-3)

Advanced topics chosen by the instructor. Course content will vary. May be repeated for credit, provided that a different topic is studied. Pre: junior standing and consent of the instructor.

### 399 Directed Studies (1-3)

Permission of the instructor and statement of planned reading or research required. Pre: junior standing.

### 401-402 Fourth-Year Japanese (3-3) Yr. (Y)

Study of modern spoken and written Japanese involving advanced structures, expressions and additional *kanji*. Pre: Jpns 302 or equivalent. (Same as JpSt 401-402)

**425 Translation Workshop (3) (AY)**

Theory and practice of translation of Japanese materials into English. Emphasis on literary translation, but non-literary texts may also be considered. Pre: Jpns 302 or consent of instructor. May be repeated once for credit. (Same as JpSt 425)

**451-452 Structure of Japanese (3-3) Yr. (AY)**

Phonology, morphology, syntax of modern colloquial grammar. Pre: Ling 102 and Jpns 202, or consent of instructor. (Same as Ling 451-452, JpSt 451-452)

**481-482 Readings in Modern Japanese Literature (3-3) Yr. (AY)**

Reading and discussion in Japanese of selected works of fiction, poetry, and drama. Pre: Jpns 302 or consent of instructor. May be repeated once for credit. (Same as JpSt 481-482)

**499 Directed Studies (1-3)**

Permission of the instructor and statement of planned reading or research required. Pre: senior standing.

**SPANISH (Span)**

Students who have demonstrated competence in Spanish in high school will not be admitted to Span 101 and must take a placement test before enrolling in a course in Spanish.

**101-102 Elementary Spanish (4-4) Yr. (S)**

Beginning course, primarily emphasizing oral practice. Laboratory drill.

**201-202 Intermediate Spanish (4-4) Yr. (Y)**

Continuation of oral practice with increasing emphasis on reading and written composition. Laboratory drill. Pre: Span 102 or equivalent.

**299 Directed Studies (1-3)**

Permission of the instructor and statement of planned reading or research required. Pre: sophomore standing.

**303-304 Advanced Grammar and Composition (3-3) Yr. (IO)**

Detailed study of Spanish grammar. Cultivation of accuracy and elegance in written expression. Pre: Span 202 or equivalent.

**399 Directed Studies (1-3)**

Permission of the instructor and statement of planned reading or research required. Pre: junior standing.

**499 Directed Studies (1-3)**

Permission of the instructor and statement of planned reading or research required. Pre: senior standing.

**LIBERAL STUDIES (LStu)**

**Office:** EKH 231, (808) 974-7482

**Professors:**

A. Didrick Castberg, Ph.D.  
Lawrence L. Heintz, Ph.D.  
Jacquelyn Pualani Johnson, M.A.

**Associate Professor:**

Douglas Mikkelson, Ph.D.

**Instructor:**

Robin Takahashi, M.Ed.

The Liberal Studies Program is designed for the student who wishes to: (1) study a particular problem or theme through a multi-disciplinary constellation of courses; or (2) create an academic major-equivalent for which there are relevant courses but for which there is no approved degree program. Any student not on academic probation may apply for

admission to the program by completing an application form on which the following must be included (a) the educational goals of the proposed program (major-equivalent); (b) an explanation of why these goals cannot be achieved through an existing major program; (c) a justification of the courses included in the major-equivalent in terms of the program goals; and (d) a list of courses that will comprise the major-equivalent, which have a minimum of 33 semester hours, of which at least 24 hours must be in upper-division courses. The application form must be approved by the Faculty Advisor, the Liberal Studies Coordinator, and the Senate's Academic Affairs Committee before the end of the student's junior year (88 semester hours). The form must be submitted to the Liberal Studies Coordinator no later than November 10 for the fall semester or April 10 for the spring semester.

Students interested in one of the four approved liberal studies programs should apply directly to the faculty member coordinating that area:

Administration of Justice	Dr. Rick Castberg
Drama	Prof. Jacquelyn Pualani Johnson
Recreational Management	Mr. Robin Takahashi
Religious Studies	Dr. Doug Mikkelson

Students who wish to design a distinctive liberal studies program must consult with the Liberal Studies Coordinator, Professor Jacquelyn Johnson.

**Administration of Justice Program**

The Administration of Justice option in the Liberal Studies degree program is a multidisciplinary program which combines existing College of Arts and Sciences and Hawai'i Community College courses into a major equivalent that cover the most important areas of Administration of Justice as offered in a liberal arts institution. The program provides for either an applied or theoretical emphasis. The student who pursues an applied emphasis will have the foundation needed for a career in an agency of the criminal justice system. Those who choose the theoretical or "law and society" emphasis will be well-prepared for government service, law school or graduate work in criminal justice.

Advisor: D. Castberg

**Major: 36 semester hours**

1. Required courses: AJ 101\*, Eng 309, Phil 220 or 315, Pols 322, Soc/Pols 324, Pols 360, Soc/Pols 380.
2. Electives: 15 semester hours, with a maximum of two courses from the same discipline, selected with the advice and consent of an Administration of Justice advisor from the following: AJ 208\*, 210\*, 280\*; Phil 320, 323, 325; Pols 321, 420S; Psy 320, 322, 323, 324; Soc 240, 280.
3. The program must meet all of the requirements of the Liberal Studies major as described elsewhere in this catalog, including a minimum of 24 credits of upper division work.
4. Those courses indicated with an asterisk (\*), or their equivalents, must be taken at a community college; they are not offered at UH Hilo.

**Drama Program**

The Liberal Studies degree in Drama is an interdisciplinary program designed to provide students with broad-based training in the academic, theoretical, and practical aspects of theater production. Students who wish to receive training and opportunities to perform and those who plan to teach or direct in the public school system and/or in the private sector will find that the program will prepare them for the rigors of leadership in these areas. Courses in the major are drawn from the Performing Arts, Communication, English, Fine Arts, Psychology, and Physics departments. All students who select this major will be required to study acting, technical theater, directing, and some of the literature comprising the theater canon.

Additionally, one of two areas of emphasis must be chosen: performance or technical theater. While pursuing the area of emphasis, students undertake in-depth training to hone their skills in the hands-on application of learned concepts through increasingly challenging courses. Electives from related disciplines also are included to enhance the understanding of the theater art, while strengthening specific skills or highlighting the interdisciplinary nature of actor training.

**Major: 42 - 45 semester hours**

- 1. Required of all majors (18 credits)**
  - A. Drama 170, 221, 264, 430, 499
  - B. Select 3 credits from the following courses: English 461, 462, 483
- 2. Select one of the following areas of emphasis:**
  - A. Performance Emphasis (15 credits)
    1. Drama 364
    2. Select 2 credits from the following courses: Dance 160, 180, 190
    3. Select 12 credits from the following courses: Drama 231, 321, 340, 350, 421
  - B. Technical Theatre Emphasis (18 credits)
    1. Art 121, Phys 107
    2. Select 3 credits from the following courses: Art 122, 124, 270, 280
    3. Select 9 credits from the following courses: Drama 340, 350, 360, 364
- 3. Electives (9 credits from three disciplines, with no more than three credits from Music)**
  - A. Dance 401, 371
  - B. Dram/Eng 318, Drama 490
  - C. Mus 102, 123, 124, 180, 404
  - D. Psy 320, 321, 324
  - E. Comu 370, 375

Total: 42 credits (Performance Emphasis); 45 credits (Technical Theatre Emphasis)

## Recreational Management

The Recreational Management option in the Liberal Studies degree program is an interdisciplinary program combining existing College of Arts and Sciences courses into a major equivalent that covers the most important areas of Recreational Management. The Recreational Management option will provide students with the foundational preparation necessary to qualify for entry-level management positions in the private, public, commercial and non-profit sectors of recreation.

### Program Requirements

1. Required Courses
  - A. Activities
    1. HPE 101; HPE 103 or 104; HPE 107 or 108 or 120 or 121; HPE 110 or 111 or 112 or 117 or 161; HPE 134 or 135; HPE 136; HPE 138 or 139
  - B. Lower Division Core
    1. CS 101; Econ 1130; Math 115; Art 101; Mus 180; Comu 151; Psy 100; Soc 100; HPE 201; HPE 204; HPE 233; HPE 234; HPE 263; Acc 250; Acc 251; QBA 260
  - C. Upper Division Core
    1. HPE 320; HPE 399; HPE 499; Psy 320; Soc 342 or 394 (as approved by program advisor); Soc 405; Comu 352 or 375; Mkt 310; Mgt 300; Mgt 332; Mgt 423; Fin 320; Eng 309
  - D. Upper Division Electives
    1. Two courses of student's choice that must be approved by the program advisor

2. Fulfill the general education requirements of the University of Hawai'i at Hilo
3. Fulfill the Writing Intensive requirements of the University of Hawai'i at Hilo

## Religious Studies

Religious Studies is an interdisciplinary program leading to a B.A. degree under the Liberal Studies program, administered by the Religious Studies Committee. Its interdisciplinary scope offers students in Hawai'i insights on religious phenomena both within particular historical-cultural traditions and across cultural boundaries. Religious Studies provides an integration of scholarship relevant to the field and in the development of methodologies appropriate to the history of religion to the present. It is an invaluable program in many disciplines including anthropology, art history, business, history, medicine, philosophy, sociology, and comparative studies.

**Major: 33 semester hours**

### Required:

- A. Methodology (3 hrs.)**  
Rels 300
- B. History of Religions (6 hrs.)**  
Rels 302, 303, 304, 315, 330, 343, 344, 370, 391
- C. Philosophy and Phenomenology of Religion (6 hrs.)**  
Rels 340, 360, 400, 410, 430, 435, 450
- D. Religion in Culture and Society (6 hrs.)**  
Rels 200, 201, 250, 301, 322, 355, 375, 385, 390, 485, 495
- E. 12 hrs. Upper Division Courses listed under Religious Studies course listings.**

## LINGUISTICS (Ling)

**Office:** EKH 214, (808) 974-7479

### Professors:

Paul W. Dixon, Ph.D.  
April R. Komenaka, Ph.D.

### Associate Professors:

Masafumi Honda, Ed.D.  
Christopher A. Reichl, Ph.D.

### Instructors:

Hirokuni Masuda, Ph.D.  
Yoshiko Okuyama, Ph.D.

### Affiliate Faculty:

William H. Wilson, Ph.D.

UH Hilo is one of a few colleges and universities in the United States to offer a Bachelor of Arts degree in Linguistics. The linguistics program offers a broad range of courses taught by faculty from several different disciplines, each of whom approaches human language from a distinctive perspective.

A major in linguistics prepares a student for graduate study in specific languages (including English) as well as in linguistics, and for many careers in fields as diverse as law, management, publishing, teaching English as a second or foreign language, the diplomatic service, language research and policy making.

### Major requirements:

1. 30 semester hours of linguistics courses, including:
  - a. Introduction/Overview: Ling 102
  - Phonetics/Phonology: Ling 311
  - Syntax/Grammar: Ling 321, 347, 452, or 454
  - Comparative/Historical: Ling 320, 451, or 455
  - Applied/Social: Ling 331, 344, or 351

- b. 15 additional semester hours in linguistics, of which at least 6 semester hours must be at the 300-level or above.
2. Two years of study of a language other than English, divided between a non-Indoeuropean language and an Indoeuropean language, as approved on consultation with a faculty advisor. Courses in the student's native language are excepted.

**Minor requirements:**

1. A total of 18 semester hours of linguistics courses including:
  - a. Ling 102, Ling 311 or Ling 321.
  - b. Twelve additional credits in Linguistics courses, of which 6 semester hours must be at the 300-level or above.
2. One year of college-level foreign language study or the equivalent.

**102 Introduction to Linguistics (3) (Y)**

A broad introduction to general linguistics: survey of phonology, morphological, syntactic, and semantic analysis, and historical and comparative linguistics. (Formerly Ling/Eng 203).

**121 Introduction to Language (3) (S)**

Linguistically oriented approaches to human behavior, including ethnolinguistics, sociolinguistics, and psycholinguistics. The way language functions in culture, society, and the cognitive processes. (Same as Anth 121)

**299 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: sophomore standing and consent of instructor.

**311 Phonology (3) (AY)**

Binary value, distinctive feature analysis of the speech sounds of the natural languages of the world. Consideration given to language change, dialect, and stylistic variation, and phonological universals. Pre: Ling 102 or 121 or consent of instructor.

**320 History of the English Language (3) (AY)**

The major developments in the English language from the 5th century to the present day. Pre: Eng/ESL 100, Ling 102 or Ling 121, or consent of instructor. (Same as Eng 320)

**321 Morphology and Syntax (3) (IO)**

Introduction to grammatical analysis and theory; practical experience in solving problems in morphology and syntax, using data drawn from a wide variety of languages. Pre: Ling 102 or consent of instructor. (Same as Anth 321, Eng 321)

**324 Modern English Grammar and Usage (3) (IO)**

The fundamentals of English morphology and syntax, conventions of written and spoken English, and sociolinguistic aspects of major English registers and dialects. Pre: Eng/ESL 100, Ling 102 or Ling 121, or consent of instructor. (Same as Eng 324)

**331 Language in Culture and Society (3) (AY)**

An examination of the articulation of language in social and cultural context, including topics relevant to sociolinguistics and ethnolinguistics. Pre: Anth/Ling 121 or Ling 102 or consent of instructor. (Same as Anth 331)

**333 Psycholinguistics (3) (AY)**

Theory and method in the investigation of the relationship between language and cognition, first- and second-language acquisition, speech pathologies.

**344 Children and Language (3) (AY)**

Strategies of language acquisition used by children; emphasis on investigative skills and methods, including some field work. Recommended prerequisite: Ling 102 or Ling 121. (Same as Ed 344, Eng 344)

**347 Pidgins and Creoles (3) (Y)**

A study of the world's pidgins and creole with special reference to the Pacific region; the origin and nature of pidgins and creoles; the relationship of Hawaiian Creole English to other creoles in the world; the link between the development of a creole and language acquisition. (Same as Anth 347, Eng 347; recommended Ling 102 or 121)

**351 Methodology of Foreign Language Teaching (3) (IO)**

Foreign language teaching and learning from the perspectives of theory and practice. The application of modern linguistics to specific problems confronting the teacher. Pre: Ling 102 or consent of instructor. (Same as IS 351)

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**410 Semantics and Pragmatics (3) (IO)**

Introduction to the fundamentals and modern theories of meaning, reference and the relations between language and knowledge of the world. Ways in which the interpretation of sentences in natural languages depends upon the literal meaning of propositions and their logical (semantic) and contextual (pragmatic) inferences. Pre: Ling 102 or consent of instructor.

**451-452 Structure of Japanese (3-3) Yr. (AY)**

Phonology, morphology, syntax of modern colloquial grammar. Pre: Ling 102 and Jpns 202 or consent of instructor. (Same as Jpns 451-452)

**453 Hawaiian Phonetics and Phonology (3) (AY)**

Sound system of the Hawaiian language. Stylistic and regional variation. Interaction of the Hawaiian sound system with the sound systems of other languages, especially that of English. Conducted in Hawaiian. Pre: Haw 202, which may be taken concurrently, or equivalent; Ling 102, Ling 211, Ling 311 recommended. (Same as Haw 453)

**454 Hawaiian Morphology and Syntax (3) (AY)**

Grammatical system of the Hawaiian language. Conducted in Hawaiian. Pre: Haw 202, which may be taken concurrently, or equivalent; Ling 102 recommended. (Same as Haw 454)

**455 Hawaiian: A Polynesian Language (3) (A)**

The similarities and differences among Polynesian languages and the reconstruction of their common ancestor language. The development of Hawaiian from that common ancestor. Conducted in Hawaiian. Pre: Haw 303, which may be taken concurrently, and Haw 453 or Ling 102; Haw 454, Ling 371 recommended. (Same as Haw 455)

**494 Special Topics in Linguistics (1-3) (IO)**

Advanced topics chosen by the instructor. Course content varies from semester to semester and the course may be repeated for credit, provided that a different topic is studied. Pre: junior or senior standing and consent of instructor.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

## MARINE SCIENCE (Mare)

**Office:** LS-2, (808) 974-7383

**Professors:**

Walter C. Dudley, Ph.D.  
Leon E. Hallacher, Ph.D.

**Associate Professor:**

Karla J. McDermid, Ph.D.

**Assistant Professors:**

Marta J. deMaintenon, Ph.D.  
Paul R. Haberstroh, Ph.D.  
Michael L. Parsons, Ph.D.

**Instructor:**

Michael L. Childers

The Marine Science program is well-rounded and multi-disciplinary. It has been carefully designed to take full advantage of the unique variety of marine environments available for study on and around the island of Hawai'i. Students begin with introductory courses, lecture and laboratory in general oceanography and marine biology. These are followed by intermediate level courses in marine ecology, marine monitoring techniques, and in statistical applications in marine science. The most advanced level in the program is made up of specialized courses in geological oceanography, chemical oceanography, physical oceanography, and marine biology. The program of study culminates either 1) in a two-semester senior thesis research program involving proposal writing, library research, field data collection, laboratory work, computer analysis, report writing and oral presentation, or 2) a senior internship, or 3) participation in the senior seminar course.

In addition to the major, a Marine Science minor is available. The minor offers a broad exposure to marine science with a biological orientation and is suitable for teaching, marine ecotourism, marine recreation, or for graduate school preparation.

Students who plan on a career in teaching may select the Natural Sciences degree for teachers with an added minor in Marine Science. Through electives (Mare 434, 435) the minor offers specialty courses in how to effectively teach ocean science using both classroom and field exercises, as well as marine courses most applicable for teachers.

Students seeking careers in marine ecotourism or marine recreation may combine the Marine Science minor with a major in Anthropology, Business Administration, Economics, Geography, or Hawaiian Studies. The minor gives students a broad background in marine science with special consideration to the plants, animals and natural history of the Hawaiian Islands.

Students wishing to pursue an advanced degree in a specialized branch of marine science after graduation may choose to major in a traditional discipline (biology, chemistry, geology, physics), yet elect to add the Marine Science minor. The minor gives students a broad background in marine science preparation for post-baccalaureate education in graduate school.

Students may also learn a variety of ocean research and marine recreation skills through the Marine Option Program at UH Hilo. Training in SCUBA research techniques, underwater photography, navigation, fishing, sailing and kayaking are available. Students may also choose to work towards a UH MOP certificate by completing selected coursework and a hands-on project.

The department offers a wide selection of introductory and advanced courses each summer on the island of Hawai'i and at Midway Atoll National Wildlife Refuge in the Northwestern Hawaiian Islands.

**Major: 46 semester hours of Mare courses plus supplemental courses**

**Required Courses:** Mare 171, Mare 171L, Mare 201, Mare 201L, Mare 250, Mare 350, Mare 350L, Mare 373 or Mare 382, Mare 425, Mare 440; plus Mare 470 and Mare 471, or Mare 480 plus 3 credits of Mare electives at the 300-400 level, or Mare 495A and Mare 495B plus three credits of Mare electives at the 300-400 level.

**Supplemental Courses:** Intro cell and molecular biology (Biol 125); general chemistry (Chem 124-125, 124L-125L); college physics (Phys 106-107,

170L-171L); calculus (Math 205, 206); microcomputing applications (CS 102).

**Electives:** 15 credits from the following courses (9 credits must be Mare 300-400 courses): Mare 264, Mare 282, Mare 310, Mare 351, Mare 352, Mare 360, Mare 364, Mare 366, Mare 371, Mare 372, Mare 373, Mare 382, Mare 394 A-Z, Mare 400; Mare 434, Mare 435, Mare 461, Mare 475, Mare 484; Biol 357; Chem 141; Econ 380; Geog 340, Geog 440, Geog 470, Geog 480; Pols 335.

**Minor: 24 semester hours in marine science**

**Required:** Mare 171, Mare 201, Mare 282, Mare 373 or Mare 382

**Electives:** 12 credits from the following list: Mare 264, Mare 310, Mare 360, Mare 364, Mare 366, Mare 371, Mare 372, Mare 373, Mare 382, Mare 394 A-Z, Mare 434, Mare 435, Mare 461, Mare 425, Mare 440, Mare 484.

**100 Marine Option Program Seminar (1) (Y)**

Orientation to the Marine Option Program with statewide overview of ocean issues and the organizations involved with marine activities, management, education, research and business. Exploration of opportunities for internships, research projects, independent study and careers. Portions on HITS with participation of students and faculty from throughout the UH system. CR/NC only.

**101L Introduction Marine Science Field Laboratory (2) (Y)**

A basic introduction to field techniques in marine science including: the use of marine charts, measuring bathymetry, marine sediment sampling, techniques for measuring salinity, temperature, and ocean circulation, plankton sampling and identification, marine fishes and invertebrates, and marine wildlife management techniques used in tagging sea turtles. Field trips required.

**171 Marine Biology (3) (S)**

Marine organisms: classification, structure, physiology, ecology and adaptations to the marine environment. This course satisfies CAS general education requirements in the Natural Sciences. Pre: previous or concurrent enrollment in Biol 125. (Same as Biol 171)

**171L Marine Biology Laboratory (1) (S)**

Provide students with direct exposure to the biota of Hawai'i via laboratory and field trips to sites around Hilo. The course focuses on the identification, natural history, and ecology of common marine organisms. Pre: current or previous enrollment in Biol/Mare 171. (Same as Biol 171L)

**190 Hawaiian Marine Field Experience (2) (Y)**

Provides a unique opportunity for students to experience the marine environment of the Big Island. Course consists of field trips to coastal and underwater sites around the island. Some swimming and snorkeling involved but not required. (Same as Biol 190)

**201 Oceanography (3) (S)**

Geological, chemical, physical and biological aspects of the ocean; structure, formation, and features of ocean basins; seawater's properties and their distribution; currents, waves, tides; characteristics of marine organisms; marine ecological principles.

**201L Oceanography Laboratory (2) (S)**

The basic techniques of oceanography including: marine charts and navigation, bathymetry, marine sediments, techniques for measuring salinity, temperature, dissolved oxygen, and surface and deep circulation, light and sound in seawater, wave dynamics, tides, plankton sampling and identification. In-class field trips required. Pre: concurrent or previous enrollment in Mare 201.

**250 Statistical Applications in Marine Science (3) (S)**

Hands-on approach to design field experiments, collect ecological data, analyze the data on microcomputers using statistical methods, and present results. Requires completion of an independent project using data collected in the field followed by the preparation of both written and oral

reports. Pre: Mare/Biol 171 or Mare 201; and CS 102 or consent of instructor. (Same as Biol 250)

**262 Introduction to Aquaculture (2 lec., 1 lab) (3) (Y)**

(Aquaculture 262, College of Agriculture, may be taken for marine science credit as Mare 262).

**264 Quantitative Underwater Ecological Survey Techniques (QUEST) (3) (Y)**

The application of commonly utilized nearshore underwater ecological surveying techniques using SCUBA. Intensive two-week course combining lecture and field work. Data will be collected in the field, reduced, analyzed and presented in an oral report. (Same as Biol 264)

**282 Global Change (3) (Y)**

Principal components of global change and impacts on the marine environment. Course focuses on the interdisciplinary nature of global change and interrelationships to biological, physical, anthropological, economic, and political concepts. Pre: college-level science course.

**282L Global Change Laboratory (1) (IO)**

Elements of global change in the physical, chemical and biological properties of the Hawaiian Islands using laboratory exercises and field trips. Involves shipboard water sampling and analysis, snorkeling on coral reefs, and hiking in rain forests. Pre: previous or concurrent enrollment in Mare 282.

**299V Directed Studies (1-3)**

Statement of planned reading or research required. Pre: sophomore standing and consent of instructor.

**301L Advanced Oceanography Laboratory (2) (Y)**

Analysis of mero/holoplanktonic composition and density in east Hawaiian waters, *in situ* quantification of piscine agonistic and feeding behavior, territory mapping using a common herbivorous pomacentrid fish, sea turtle population evaluation via Schnabel analysis, use of satellite-based navigation systems, computer controlled bathymetric profiling, marine sedimentation and turbidity monitoring, thermohaline circulation profiling by CTD, Eulerian and Lagrangian techniques.

**310 The Atoll Ecosystem (3) (Y)**

Formation, structure, distribution, oceanography, biota and ecology of atolls. Human interactions, historical and modern, with atoll ecosystems. Atoll resource management issues and actions. Pre: Mare/Biol 171, Mare 201, or Biol 156 or consent of instructor.

**350 Marine Monitoring and Analysis (3) (S)**

Theoretical and practical planning and implementation of data collection and analysis of the marine environment. Techniques include measuring geological, chemical, and physical oceanographic properties; estimating the abundance and diversity of plankton, nekton, and benthos; and use of modern data recording and analyzing systems. Pre: Biol/Mare 250; Mare 201.

**350L Marine Monitoring and Analysis Laboratory (1) (S)**

Field and laboratory data collection in the marine environment and its statistical analysis. Techniques include measuring geological, chemical, and physical oceanographic properties; estimating the abundance and diversity of plankton, nekton, and benthos; and use of modern data recording and analyzing systems. Pre: Mare/Biol 250; Mare 201; Mare 201L; concurrent enrollment in Mare 350.

**351 Culture of Aquatic Plants and Invertebrates (2 lec., 1 lab) (3) (Y)**

(Aquaculture 351, College of Agriculture, may be taken as marine science credit as Mare 351.)

**352 Culture of Finfish (2 lec., 1 lab) (Y)**

(Aquaculture 350, College of Agriculture, may be taken as marine science credit as Mare 352.)

**360 Marine Resources (3) (IO)**

A survey of human use of the marine environment including physical and biological resources. Topics covered include: fisheries, mariculture, marine mineral and energy resources, chemical resources of sea water, the use of coastal lands and waste disposal in the sea. Pre: Mare 201 or Biol/Mare 171, or consent of instructor. (Same as Biol 360)

**364 Advanced QUEST (3) (Y)**

Students lead a dive team learning underwater ecological surveying techniques; supervise field data collection, data reduction and analysis, and team presentation of written and oral reports; and assist in training students in identification of marine organisms. Pre: SCUBA certification, UH diving certification, current CPR/first aid, Biol/Mare 264, and consent of instructor. Students receive CR/NC for the course. (Same as Biol 364)

**366 Tropical Marine Research Investigations (3) (Y)**

Research projects on marine-related problems. Students will do a literature search; develop experimental design; collect, reduce and analyze data; do a written final report; and present findings at a symposium. Projects will be selected from a list of topics or can be original with the consent of the instructor. Pre: consent of instructor. (Same as Biol 366)

**371 Biology of Marine Invertebrates (3) (Y)**

A survey of the major groups of invertebrates focusing on those dominant in the marine environment. Students will learn methods used to identify and classify invertebrates and will survey the anatomy, physiology, and natural history of the major groups. Pre: Biol/Mare 171 or Biol 150 or their equivalent. (Same as Biol 371)

**371L Biology of Marine Invertebrates Laboratory (1) (Y)**

Direct exposure to the major groups of invertebrates in the marine environment, focusing on those present in Hawai'i. Students will learn to identify and classify invertebrates and will survey the anatomy and natural history of the major groups. Pre: concurrent or previous enrollment in Biol/Mare 371. (Same as Biol 371L)

**372 Biology of Marine Plants (3) (Y)**

Diversity, distribution and ecology of marine macroalgae and seagrasses. Students will learn methods to identify common marine plants of the Hawaiian Islands and the tropical Pacific. Marine plants and their relation to human affairs will be discussed. Pre: Mare/Biol 171 or Biol 153 or consent of instructor.

**373 Pelagic Ecology (3) (Y)**

This course focuses on the interaction of phytoplankton and zooplankton in the open ocean environment. Students will learn aspects of plankton taxonomy, phytoplankton physiology, and pelagic population dynamics. The student's knowledge will then be applied to the study of local and global productivity. Pre: Sophomore standing and Mare/Biol 171 and Mare 201, or consent of instructor.

**382 Benthic Ecology (3) (Y)**

The ecology of benthic marine systems with emphasis on the interactions between organisms in near shore and deep sea communities and their environment. Pre: Sophomore standing and Biol/Mare 171 or its equivalent, or consent of instructor. (Same as Biol 382)

**399V Directed Studies (1-3)**

Statement of planned reading and research required. Pre: junior standing and consent of instructor.

**400 Aquacultural Engineering (3 lec., 1 lab) (4) (Y)**

(Agricultural Engineering 400, College of Agriculture, may be taken for marine science credit as Mare 400.)

**420 Water Quality and Aquatic Productivity (2 lec., 1 lab) (3) (Y)**

(Aquaculture 425, College of Agriculture, may be taken as marine science credit as Mare 420)

**425 Chemical Oceanography (3) (Y)**

Chemical processes occurring in marine and estuarine waters and their impact on the nearshore and oceanic environments. Topics include: sa-

linity, chlorinity, major and minor elements, and dissolved gasses in sea-water; macro and micronutrients, dissolved and particulate organic matter; geochemistry of marine sediments; and radiometric dating and stable isotopes as water mass tracers. Pre: Chem 125, Mare 201.

#### **434 Teaching Marine Science (3) (AY)**

Marine science concepts and teaching strategies for pre-service and inservice teachers. Includes geological, chemical, physical and biological topics. Pre: Mare/Biol 171 or Mare 201.

#### **435 Marine Field Experience for Teachers (3) (AY)**

Training for pre-service and inservice teachers in marine science field experiences content and strategies. Includes geological, chemical, physical and biological topics. Pre: Mare/Biol 171 or Mare 201.

#### **440 Physical Oceanography (3) (Y)**

Topics in physical oceanography include: distribution of water characteristics in the ocean; dynamics of circulation and water masses; wave characteristics including formation, propagation, dispersion and refraction; dynamic and equilibrium theories of tides as well as tsunamis, seiche, and internal waves; sound and optics; and the latest methods and instrumentation in physical oceanography. Pre: Phys 107, Mare 201

#### **461 Geological Oceanography (3) (Y)**

A detailed study of the ocean floor to include marine stratigraphy, plate tectonics, oceanic sediments and paleoceanography. Pre: Mare 201, and one of Chem 124, 125 or Mare 440; or consent of instructor.

#### **470 Senior Thesis Research (3) (Y)**

Practical experience in designing and completing a marine-related research project. Students will submit project proposals for evaluation and approval. Once approved, students will do a thorough literature review, develop an experimental design, and collect and record data. Weekly progress reports will be required. Data collection will be completed by the end of the semester. Pre: Mare 350, Eng 309, and CS 102, or consent of the instructor.

#### **471 Senior Thesis Report (3) (Y)**

Second-semester continuation of Mare 470. Students finish their research projects no later than six weeks into the semester. Following data reduction and analysis, a final written report will be prepared. Students will also present 15-minute seminar presentations on the results of their projects. Pre: Mare 470 and consent of instructor.

#### **475 Fish Population Dynamics (2 lec., 1 lab) (3) (Y)**

(Aquaculture 475, College of Agriculture, may be taken for marine science credit as Mare 475.)

#### **480 Senior Internship (3) (S)**

Applications of knowledge and skills in a public, private, or government agency involved in marine science education or research. Pre: junior or senior class standing, consent of instructor and preapproved placement.

#### **484 Biology of Fishes (3) (Y)**

The biology of marine and freshwater fishes. Topics covered include: general anatomy, locomotion, respiration, osmoregulation, sensory systems, reproduction, electrosensitive and electrogenic fishes, coloration and bioluminescence in fishes, migratory patterns, trophic ecology, territorial behavior, and phylogenetic interrelationships. Pre: Biol/Mare 171 or Biol 150 or their equivalent, or consent of instructor. (Same as Biol 484)

#### **484L Biology of Fishes Laboratory (1) (IO)**

Anatomy of jawless, cartilaginous and bony fishes. Review of common local reef fishes. Optional laboratory and field trips for Biology of Fishes. (Same as Biol 484L)

#### **495A Senior Seminar (1) (S)**

Lectures, discussions and research reports of topics in marine science presented by faculty, students, invited speakers and visiting scholars. Students must attend and critique seminars for CR/NC grade. Pre: Senior standing or consent of instructor

#### **495B Senior Seminar (2) (S)**

Lectures, discussions and research reports of topics in marine science presented by faculty, students, invited speakers and visiting scholars. Students must attend and critique seminars and present a seminar for a letter grade. Pre: Mare 495A, senior standing or consent of instructor.

#### **496 Teaching Assistance & Tutoring in Marine Science (1-3) (Y)**

Practice in individual tutoring, and in the preparation of the selected topics in Marine Science lecture or laboratory courses, under direct instructional supervision. This course may be repeated for a maximum of 6 credits and may not be used to replace any specific course or elective requirements of the Marine Science major. Pre: consent of the supervising instructor and the department chair.

## **MATHEMATICS (Math)**

**Office:** LS2, (808) 974-7383

#### **Professor:**

Carole K. Miura, Ph.D.

#### **Associate Professor:**

Mitchell J. Anderson, Ph.D.

#### **Assistant Professor:**

Shuguang Li, Ph.D.

#### **Instructor:**

Robert L. Garry, M.S.

The Mathematics program is designed to give the undergraduate a broad background in modern mathematics and its applications. The upper-division mathematics courses represent a core leading to further work in mathematics or mathematically related areas, or careers in mathematical education. Applications may be pursued in such areas as systems theory, operations research, statistics, and numerical analysis which are widely used in computer science, business and the physical, life and social sciences. Students majoring in other fields whose interests require a strong background in mathematics can minor in mathematics.

#### **Major: Mathematics courses: 37 semester hours**

- A. Track One, Traditional, is intended primarily for those students planning to pursue graduate work in mathematics or careers in science and technology.
1. Required courses: Math 205, 206, 231, 232, 310, 311, 431-432, 454-455.
  2. Electives: at least 3 semester hours of upper division mathematics courses.
- B. Track Two, Teaching, is intended primarily for those students planning to pursue careers in the teaching of mathematics.
1. Required courses: Math 121, 205, 206, 231, 232, 310, 311, 421-422, plus any one sequence chosen from Math 300-301, 303-304, 431-432, 454-455.
  2. Electives: If necessary, an upper division mathematics course to meet the 37 semester hours of mathematics required for the major; Math 317 strongly recommended.

#### **Minor: 26 semester hours of mathematics courses**

1. Required courses: Math 205, 206, 231, 232.
2. Electives: at least 12 semester hours of upper-division mathematics courses.

#### **Certificate in Systems Modeling: 23 semester hours.**

The Certificate in Systems Modeling is an interdisciplinary program designed to give real world problems a mathematical description through the use of a model. Components of this model may be analyzed and controlled using systems meth-



ods to simulate, interpret and solve the original problem. The student must complete the required courses below and is invited to consider the suggested electives in an area of interest. Advanced students may obtain experience through a work/project program.

**Required courses:** Math 205, 206, 311, 312, 415.

**Elective courses from areas of:** Optimization and Decisions (Math 341 or Econ 420), Probability (Math 421 or QBA 360), Numerical Methods (Math 407), Simulation (CS 430, 471, 482; QBA 499), and suitable topics in Math 394, 494.

All lower-division mathematics courses satisfy the CAS General Education "quantitative and logical reasoning" requirements.

### 100 Survey of Mathematics (3) (S)

The role of mathematics in our modern technological society. Topics may include logic, number systems, computers, algebra, and probability. Pre: one year of high school algebra or equivalent.

### 101 Introduction to Applied Mathematics (3) (IO)

An application oriented course designed for the liberal arts student. Concepts are introduced as needed to solve specific problems. Topics may include linear programming, annuities, expected values and decision making, and exponential growth. Pre: One year of high school algebra or equivalent.

### 104 Precalculus Mathematics (4) (S)

Math 104 is an intensive one semester focus on the material covered in the sequence Math 104F-104G. A student may not receive credit for both Math 104 and Math 104F-104G. Pre: 2 years of high school algebra.

### 104F Precalculus I: Elementary Functions (3) (S)

Functions and relations; polynomial and rational functions; exponential and logarithmic functions; matrices; sequences and series. Pre: 2 years of high school algebra.

### 104G Precalculus II: Trigonometry and Analytic Geometry (3) (Y)

Trigonometric functions; analytic trigonometry; analytic geometry. Math 104F recommended. Pre: Two years of high school algebra.

### 106 Fundamentals of Euclidean Geometry (3) (IO)

An axiomatic treatment of elementary Euclidean geometry focusing on theorems, proofs, and constructions.

### 107 Mathematics for Education I (4) (Y)

Concepts, properties and applications of number systems. Intended primarily for prospective elementary school teachers. Class time spent on both lectures and projects. Pre: one year of high school algebra.

### 108 Mathematics for Education II (4) (Y)

Concepts, properties and applications of topics from probability, statistics, and geometry. Intended primarily for prospective elementary school teachers. Class time spent on both lectures and projects. Pre: Math 107 or consent of the instructor.

### 111 Mathematical Applications of Personal Computers (3) (S)

Use of symbols, equations, images in scientific documents. Computations using spreadsheets with sums, averages, and scientific functions. Data analysis: curve fitting, interpolation, statistics. Data presentation: visualization, charts, and graphs. Symbolic computation. Database processing: forms, queries, reports, VBA. Additional topics chosen from: real-time data acquisition, more advanced statistical methods, system simulation. Intended for science majors. (Same as CS 102)

### 115 Applied Calculus (3) (S)

Emphasis on applications and computations rather than theory. Derivatives, curve sketching, optimization, exponential and logarithmic functions, integration, partial derivatives, and applications in these areas. Pre: Two years of high school algebra.

### 121 Introduction to Statistics and Probability (3) (Y)

Basic topics in statistics and probability. Pre: two years of high school algebra.

### 205-206 Calculus I-II (4-4) (S-S)

Basic concepts of differentiation and integration with applications. Integrals of trigonometric, exponential and logarithmic functions; infinite series; techniques of integration and applications. Pre: trigonometry, or C in Math 104 or Math 104F-104G for enrollment in Math 205; and C in Math 205 or equivalent for enrollment in Math 206; or consent of instructor.

### 231 Calculus III (3) (Y)

Discussion of topics in Math 205 and Math 206 in several variables; partial differentiation, max-min problems, multiple integration. Pre: C in Math 206.

### 232 Calculus IV (3) (Y)

Multiple integrals, line integrals, Green's Theorem, surface integrals, ordinary differential equations. Pre: C in Math 231.

### 299 Directed Studies (1-3) (IO)

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing.

### 300 Ordinary Differential Equations (3) (Y)

Theory and methods of solutions of ordinary differential equations and systems of linear differential equations with constant coefficients. Power series solutions, Laplace transforms, and applications. Pre: C in Math 206.

### 301 Partial Differential Equations (3) (AY)

Construction and behavior of solutions of partial differential equations in physical and engineering applications, classical equations of mathematical physics, initial and boundary value problems, and eigenvalue problems. Pre: Math 300.

### 303-304 Complex Variables with Applications (3-3) (AY)

Introduction to the theory of functions of a complex variable. Analytic functions, Riemann surfaces, complex integration, Taylor and Laurent series, residue theory, conformal mapping. Applications to scientific problems of interest. Pre: Math 231 for Math 303; Math 303 for Math 304.

### 310 Discrete Mathematics (3) (Y)

Topics from discrete mathematics, including logic, proof techniques, recurrence relations, set theory, combinatorics, relations, functions, graphs, Boolean algebraic structures and applications to coding theory. Not open to students with credit in CS 215. Pre: Math 206.

### 311 Introduction to Linear Algebra (3) (Y)

Algebra of matrices, linear equations, vector spaces, linear transformations, eigenvalue problems, and basic applications. Pre: C in Math 310 or CS 215.

### 312 Introduction to Linear Systems (3) (IO)

Introduction to the concepts of linear systems with particular emphasis on basic examples. Topics include systems of linear differential equations, qualitative properties as stability, linear control systems with feedback, self-contained applications involving economics, life and physical sciences. Pre: C in Math 311.

### 317 Introduction to the Theory of Equations (3) (AY)

Number systems as related to solutions of polynomial equations, division algorithm, factorization, fundamental theorem of algebra, location of roots, relations to other areas of mathematics. Pre: Math 311.

### 320 Applied Statistics (3) (IO)

Introduction to continuous distributions; sampling; estimation; tests of hypotheses concerning means, proportions, variances; linear regression; one-way and two-way ANOVA; use of statistical computer packages. Pre: C in Math 121 or consent of instructor.

### 341 Operations Research I (3) (IO)

Modern mathematical methods used in the managerial, administrative, and planning areas. Topics include linear programming, transportation and assignment problems, and project management. Pre: C in Math 206.

### 342 Operations Research II (3) (IO)

A continuation of Math 341 incorporating probability. Topics will include birth-death processes, queuing theory, inventory theory, and simulation. Pre: C in Math 206 and Math 321.

**394 Topics in Mathematics (1-3) (IO)**

Intermediate topics chosen by the instructor. Topics will be selected from both the theoretical and applied areas of mathematics. The course content will vary. It may be repeated for credit, provided that a different topic is studied.

**399 Directed Studies (1-3) (IO)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**407 Introduction to Numerical Analysis I (3) (Y)**

Solutions of equations in one variable, direct and iterative methods for systems of linear equations, the algebraic eigenvalue problem, interpolation and polynomial approximation, error analysis and convergence for specific methods. Offered spring semester. Pre: C in Math 206 and Math 311 and programming experience.

**408 Introduction to Numerical Analysis II (3) (IO)**

A continuation of Math 407. Topics will include approximation theory, numerical integration and differentiation, solution of systems of nonlinear equations, numerical solutions to differential equations. Pre: C in Math 407.

**415 Dynamic Systems (3) (IO)**

Introduction to dynamic systems concepts as used in real world models. Review of linear systems. Concepts of control, input-output models, state space description. Nonlinear systems and linearization. Feedback, stability and simulation. Introduction to optimality. Pre: C in Math 206 and Math 312.

**421 Elementary Probability Theory (3) (Y)**

Sets, sample spaces, combinatorial probability, random variables, mathematical expectation, classical distributions, applications. Pre: "C" in Math 311 or consent of instructor.

**422 Elementary Mathematical Statistics (3) (Y)**

Statistical inference, estimation, hypothesis testing, regression, correlation, introduction to analysis of variance. Pre: C in Math 421 or consent of instructor.

**431-432 Real Analysis (4-4) (AY)**

A study of the basic concepts and theorems underlying classical analysis. Pre: C in Math 232.

**454-455 Modern Applied Algebra (3-3) (AY)**

Basic concepts of algebraic structures, groups, rings, fields, polynomials with applications to coding theory, finite-state machines, algebraic systems theory. Pre: C in Math 311.

**494 Special Topics in Mathematics (1-3) (IO)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Possible topics would be selected from real and complex analysis, elementary topology, matrix groups, numerical analysis, statistics, and probability. Pre: senior standing and consent of the instructor.

**495A-495B Seminar (1-1) Yr. (Y)**

Seminar presentations of topics in the physical sciences by faculty, enrolled students and invited speakers. The first semester (495A) is taken CR/NC; in the second semester (495B), students are required to present a seminar for a letter grade. Pre: senior standing or consent of instructor. (Same as Astr 495A-495B, Geol 495A-495B, Chem 495A-495B and Phys 495A-495B)

**496 Teaching Assistance and Tutoring in Mathematics (1-3) (S)**

Practice in individual tutoring and in the preparation of the selected topics in mathematics lecture or laboratory courses, under direct instructional supervision. This course may be used for a maximum of six (6) credits and may not be used for substitution for any specific course or elective requirements of the Mathematics major. Pre: Consent of the supervisor and the department chair.

**499 Directed Studies (1-3) (IO)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**MUSIC (Mus)–See Performing Arts****NATURAL SCIENCE (NSCI)**

**Office:** LS 2, (808) 974-7383

**Area Advisors:**

Richard Crowe, Ph.D., Astronomy & Physics  
Judith Gersting, Ph.D., Computer Science  
Ernest Kho, Ph.D., Chemistry  
Karla McDermid, Ph.D., Marine Science  
Jené Michaud, Ph.D., Geology  
Carole Miura, Ph.D., Mathematics

In response to our nation's crisis in Science Education—its need for a more scientifically literate public and more scientists—UH Hilo offers a major that scans the whole field of the Natural Science and gives recipients of this degree a background desirable for a career working with other scientists or teaching at the elementary or secondary level.

The Natural Science major includes two tracks from which students may select: 1) Track A, recommended for those interested in a general science degree and also pursuing a career in elementary education, and 2) Track B, the major plus a required science minor recommended for those interested in pursuing a career in science or secondary science teaching.

This more general science major includes courses in Biology, Chemistry, Physics, Astronomy, Math, Computer Science, Meteorology, Oceanography, and in the History and Philosophy of Science.

**Requirements for the Natural Sciences major****Track A:****Recommended for those interested in elementary teaching**

- General Education Requirements
- Science Core Requirements
- Science Breadth Requirements: Minimum: Fulfill all subject area sequences in Option 1. However, may fulfill subject areas in Option 2.
- Upper Division Requirements: 45 credits required of which the following must be included: NSCI450, NSCI451, NSCI460, NSCI461, NSCI470, NSCI471, NSCI485
- Hawaiian/Asian/Pacific Requirement
- Complete a minimum of 120 credits to satisfy credit requirements for a Bachelor of Arts degree
- Other requirements: Fulfill supplemental requirements listed under Education Program for all entering the Education program and those specific to the Elementary Program.
- See note under Natural Science Certificate (Elementary).

**Track B: Recommended for those interested in pursuing a career in the sciences or in secondary teaching**

- General Education Requirements
- Science Core Requirements
- Science Breadth Requirements: Fulfill requirements listed in Option 1 or Option 2 for each subject area sequence, with at least 3 of the subject area sequences selected in Option 2. Subject area sequences not selected in Option 2 must then be completed under Option 1.
- Additional Requirements:
  - a) Complete coursework for a minor in the natural science of choice (courses common to both the breadth and the minor requirements may be used to satisfy both);
  - b) Complete a minimum of 120 credits to satisfy requirements for a Bachelor of Arts degree;
  - c) Fulfill Upper Division requirements;
  - d) Fulfill Hawaiian/Asian/Pacific requirement.

**The following minors are available to those students selecting Track B:**

Astronomy	Geology
Biology	Marine Science
Chemistry	Mathematics
Computer Science	Physics
Earth/Space Science	

**Science Core Requirements:**

NSCI 380 (1) Historical Perspectives in Science  
 Ed 406/CS 100 (3) Computers in Education/Principles of Computer Science  
 Phys/Geog 120 (3) Weather and Climate of Hawai'i  
 Mare 201 (3) Oceanography

Note: Phil 390 (History and Philosophy of Science) may substitute for NSCI 380

**Science Breadth Requirements:****Option 1**

Astr 110 (3) General Astronomy  
 Astr 110L (1) General Astronomy Lab  
 Biol 101 (3) General Biology  
 Biol 101L (1) General Biology Lab  
 Phys 115 (3) Physics for the Liberal Arts  
 Geol 111 (3) Physical Geology  
 Geol 111L (1) Physical Geology Lab  
 Chem 114 (3) Introductory Chemistry  
 Chem 114L (1) Introductory Chemistry Lab  
 Math 107 (4) Mathematics for Teachers I (Track A only)  
 Math 108 (4) Mathematics for Teachers II (Track A only)  
 Math 115 (3) Applied Calculus (Track B only)

**Option 2**

Astr 180 (3) Principles of Astronomy I  
 Astr 181 (3) Principles of Astronomy II  
 Astr 110L (1) General Astronomy Lab  
 Biol 150 (3) Principles of Zoology  
 Biol 150L (1) Principles of Zoology Lab  
 Biol 153 (3) General Botany  
 Biol 153L (1) General Botany Lab  
 Phys 170/106 (3) General Physics I/College Physics I  
 Phys 170L (1) General Physics Lab I  
 Phys 171/107 (3) General Physics II/College Physics II  
 Geol 111 (3) Physical Geology  
 Geol 111L (1) Physical Geology Lab  
 Geol 112 (3) Historical Geology  
 Chem 124 (3) General Chemistry I  
 Chem 124L (1) General Chemistry  
 Chem 125 (4) General Chemistry II  
 Math 205 (4) Calculus I

**333 Science Methods (Secondary) (3)**

Introduction to the secondary science classroom: its physical, psychological, and content organization; the classroom laboratory; use of the scientific method; teaching techniques for biological and physical sciences. Pre: Basic courses in any two of the following: biology, chemistry, physics, earth sciences. (Same as Ed 333).

**380 Historical Perspectives in Science (1)**

Philosophical conceptions of science applied to historical case studies. Pre: Junior standing and 10 credits of Natural Science Division courses. Phil 100 recommended.

**394 Special Topics in the Natural Sciences (1-3)**

Selected topics in the natural sciences chosen by the instructor. The course content will vary. May be repeated provided a different topic is studied. Pre: consent of instructor.

**494 Special Topics in the Natural Sciences (1-3)**

Selected topics in the natural sciences chosen by the instructor. The course content will vary. May be repeated provided a different topic is studied each time. Pre: Junior standing and/or consent of instructor.

**Natural Science Certificate (Elementary)**

This Natural Science Certificate for elementary teachers offers teachers the opportunity to acquire a substantial background in the Natural Science. Composed of 12 science content credits and 6 methods credits, this 18-credit certificate focuses on presenting current information in the natural sciences and ways of applying this information in the elementary classroom. Methods courses focus on thinking skills; cooperative learning; learning styles; integrated and interdisciplinary learning; and organization of information from science content areas into an integrated curriculum for maximum application in the classroom.

**NOTE:** This certificate is presently funded through external grant monies and will continue to be offered as long as these monies are available or there are enough teachers enrolled in classes, thus making the program self supporting.

**Prerequisites:** All courses require participants to have a bachelor's degree from an accredited institution and teaching experience and/or consent of the instructor.

**NSCI 450 Biology and Chemistry for Teachers (2)**

Fundamental topics in Biology and Chemistry are presented to assist teachers in introducing these areas to elementary students. Practical applications are emphasized. Various instructional modes are integrated into actual content area delivery.

**NSCI 451 Ecology and Marine Biology for Teachers (2)**

Fundamental topics in Ecology and Marine Biology are presented to assist teachers in introducing these areas to elementary students. Practical applications are emphasized. Various instructional modes are integrated into actual content area delivery.

**NSCI 460 Physics and Geology for Teachers (2)**

Fundamental topics in Physics and Geology are presented to assist teachers in introducing these areas to elementary students. Practical applications are emphasized. Various instructional modes are integrated into actual content area delivery.

**NSCI 461 Astronomy and Meteorology for Teachers (2)**

Fundamental topics in Astronomy and Meteorology are presented to assist teachers in introducing these areas to elementary students. Practical applications are emphasized. Various instructional modes are integrated into actual content area delivery.

**NSCI 470 Math and Its Methods for Teachers (2)**

Course emphasizes mathematics skills and a problem-solving approach to teaching mathematics to elementary students. Use of manipulatives to facilitate the learning of mathematics and concept development is focused upon. Interdisciplinary approaches to teaching mathematics and alternative means of assessment are also presented.

**NSCI 471 Computer in Science and Math for Teachers (2)**

The integration of computer technology into the elementary classroom in the areas of math and science will be explored in a practical setting. Students will have access to computers and pertinent software programs available at the elementary level.

**NSCI 485 Teaching the Natural Sciences I (3)**

Focus on current methodologies used in science teaching including: cooperative learning, motivational techniques, learning styles, interdisciplinary instruction, integrated instruction, critical thinking skills, science process skills, and the use of hands-on instruction.

**NSCI 486 Teaching the Natural Sciences II (3)**

Focus on incorporation of materials and methodology from other Natural Sciences Certificate courses into existing curriculum used by participating teachers or into their own curriculum guides. Additional Prerequisite: Must have taken at least 13 credits of the Natural Sciences Certificate Program or consent of instructor.

**NURSING (Nurs)**

**Office:** CH 8, (808) 974-7760

**Fax:** (808) 974-7665

**Associate Professor:**

Cecilia P.S. Wong Mukai, Ph.D., APRN, FNP-C

**Assistant Professors:**

Katharyn F. Daub, M.N.Ed., R.N.

Phyllis J. Eide, Ph.D., M.P.H., MSN, R.N.-C

**Mission Statement**

The Baccalaureate Nursing Program supports the mission of the University of Hawaii at Hilo in providing a learning environment that is responsive to the needs of a diverse student population and that stresses rigorous high quality education in a caring, personalized atmosphere. This educational experience encourages student-faculty interactions and offers hands-on learning and leadership opportunities. The Nursing Program places emphasis on learning about the challenges of delivering culturally congruent nursing care in a rural environment.

**Goals**

The program is committed to the following:

1. quality nursing education with a strong focus on transcultural caring and an emphasis on critical thinking skills
2. maintaining currency with nursing practices and standards in the delivery of therapeutic nursing care to individuals, families and communities
3. developing effective communication skills that are congruent with cultural values and beliefs
4. fostering community engagement through service and research projects which develops skills in collaboration, resource management and program development
5. satisfactorily meeting the needs of students as well as those of clients and employers

The Baccalaureate Nursing program prepares students for careers in professional nursing. The nursing program is accredited by the Hawaii State Board of Nursing and the National League for Nursing. The B.S.N degree will be granted by UH Hilo upon the recommendation of nursing faculty to those students who have successfully completed the prescribed curriculum.

To earn the degree, a student must satisfy the prerequisite, co-requisite and nursing course requirements for the BSN degree as specified in the UH Hilo catalog and BSN brochure in effect at the time of the student's initial enrollment in the nursing program. Students are expected to complete the program within five years of enrollment. Students who do not graduate within five years of enrollment will be subject to review and will, if necessary, be expected to meet requirements currently in effect.

The student is directly responsible to assure that all requirements are met for graduation.

**Admissions Policies**

Students qualify for admission into the upper division of the Basic Baccalaureate Nursing program after completing two years of prerequisite courses. Students with R.N. training who are transferring from an accredited college or university or from any institution which has an R.N.

associate degree articulation agreement with UH Hilo will be considered for the RN/BSN completion program. Admission is on a competitive space-available basis.

The criteria for admission to the nursing program are:

1. Timely submission of UH Hilo Common Application Form for newly entering students or "Change of Program" form for continuing students. (Designate NURH for the major.)
2. Timely submission of Nursing application form
3. 2.7 cumulative college grade point average
4. Completion of all college prerequisite courses (Note\*: Biology and Chemistry classes must be passed with a "C" or better grade. Students transferring from outside the UH system must submit course descriptions for all non-nursing courses and course syllabi for nursing courses.) Fall admission only: Applications to the Bachelor of Science in Nursing program must be made by January 15 for Fall entry. Applications may be picked up at the Baccalaureate Nursing Office after approval by Nursing academic advisor.

**Pre-Nursing Status:**

Prior to formal admission into the upper division nursing program, students following the course of study to qualify for admission will be considered Pre-nursing students. Newly entering Pre-nursing students should indicate PRNU as the major on their Common Application Form. Continuing UH Hilo students who have not done so should submit a "Change of Program" form to indicate PRNU as the major. There are no special requirements for the PRNU major. Pre-nursing students should seek regular advisement from the nursing faculty regarding academic planning.

**NLN Mobility Test Requirement**

Diploma and foreign nursing degree candidates are required to take the National League of Nursing Achievement Challenge Exam I and II Tests prior to entering the program. Consult with the Nursing advisor for help in arranging for testing with the UH Hilo Testing Center.

**Academic Status and Progression Policies**

The nursing faculty of UH Hilo are held responsible to the UH Board of Regents and the Hawaii State Board of Nursing for the quality of its nursing education. Inherent in this responsibility is the assessment of individual progression based upon academic and professional ethical standards. All UH Hilo policies are in effect and may be found in the academic regulations in the UH Hilo catalog.

**Academic Honors**

All nursing students achieving a cumulative GPA of 3.7 or better will be awarded the Director's Certificate of Academic Excellence upon graduation.

**Academic Suspension and Dismissal**

A student failing to achieve a C or 2.0 grade in nursing courses at any point in her/his progression through the program may be suspended and/or considered for dismissal from the program based on the review and recommendation of the Nursing Admissions, Progression and Retention Committee. A student must repeat this failed course before progression to the next level of courses.

A student failing the same nursing course twice (less than a C or 2.0 grade) at any point in her/his progression through the program will be dismissed.

A student who fails more than two separate nursing courses at any point in her/his progression through the program will be dismissed.

A student may be subject to immediate suspension or dismissal from clinical activities, when, in the judgment of the nursing faculty, the welfare of the client, the public, or the University requires such action.

A student shall be suspended or dismissed only for reasonable cause and only after being given the opportunity to participate in the UH Hilo grievance protocol. Reasonable cause for suspension or dismissal includes but is not limited to the demonstrable behaviors contrary to the Code of Ethics and Standards of Practice of the American Nurses' Association, the International Council of Nurses and the rules and regulations of the Hawai'i Board of Nursing (Hawai'i Revised Statutes, Chapter 457). Stu-

dents are responsible to be knowledgeable regarding these aforementioned codes, rules, and regulations.

### Readmission Policy

A student who is applying for readmission must submit an "Application for Readmission" to the Academic Admissions, Progression, and Retention Committee and follow proper procedures for readmission. A qualified student may be readmitted on a space-available basis. October 1 for Spring readmission; April 1 for Fall readmission.

### Policy on Nursing Courses

The Nursing courses listed in the blocks below are restricted to students admitted to the upper division Nursing program, with a major designation of NURH. All courses within a block must be taken concurrently. Students may not proceed to the next block until all course requirements for the preceding block have been met. (Students in the RN/BSN program take courses within the block as determined by their program of study.) A course with an associated lab must be taken concurrently. Repeating a course/lab requires repeating the associated lab/course regardless of a passing grade. Repeated courses must be audited if previously passed.

**Block I:** Nurs 347, 347L, 350, 351, 352 L, 353, 353L

**Block II:** Nurs 355, 355L, 356, 356L, 357, 357L, 358

**Block III:** Nurs 455, 455L, 456, 456L

**Block IV:** Nurs 410, 410L, 457, 457L, 468

Nursing elective and corequisite courses do not require admission into the upper division Nursing program and may be taken with instructor and/or departmental approval, as required:

Nursing electives: Nurs 370, 371, 394 B, 471, 472

Corequisite courses: Nurs 203, 375

Required grading for all nursing **practicum** courses will be CR/NC. This affects the following courses:

Nurs 347L, Nurs 353L, Nurs 355L, Nurs 356L, Nurs 357L,  
Nurs 410L, Nurs 455L, Nurs 456L, Nurs 457L.

## Bachelor of Science in Nursing

To earn a bachelor of science degree in nursing, a student must acquire 130 semester hours, must complete the general and specific requirements for a baccalaureate degree at UH Hilo, and must satisfy the following Pre-Nursing, Pre-Core, and Nursing degree requirements.

### General Education Requirements

- A. Written communications (3 semester hours)
  1. English 100, 100T or ESL 100 or Discoveries Freshman Seminar (must be fulfilled before completion of 24 credits).
- B. Quantitative Reasoning (3 semester hours)
  1. Math 100 or higher (Pass with C or better grade)
- C. World Cultures (6 semester hours)
  1. Anthropology 100  
AND one other within this category
    1. Anth/Mus 170
    2. Eng 253, 254
    3. Geog 102
    4. Hist 151, 152
    5. Discoveries IS 198A
    6. KInd 240
- D. Humanities (Total of 9 semester hours at 100-200 level)
  1. Communication 151  
AND two other courses within this category
    1. Art
    2. English
    3. Hawaiian Studies and Indigenous Studies
    4. Languages
    5. Linguistics
    6. Performing Arts

7. Philosophy
8. Religious Studies
- E. Social Sciences (9 semester hours at 100-200 level)
  1. Psychology 100  
AND two other courses within this category
    1. Anthropology
    2. Business Administration: /Bus 100 only
    3. Economics
    4. Geography
    5. History
    6. Political Science
    7. Sociology
    8. Women's Studies
- F. Natural Sciences (21 semester hours at 100-200 level from 3 separate disciplines, including 3 labs) (All Natural Sciences courses must be passed with C or better)
  1. Biology 243
  2. Biology 243L
  3. Biology 244
  4. Biology 244L
  5. Biology 275
  6. Biology 275L
  7. Chemistry 114\* (no lab)
  8. Chemistry 141 (no lab)
  9. Nurs 203

\* May be waived if student received at least a **B** grade in high school chemistry. High school transcript and course waiver form required.

### Pre-Core (courses\*)

1. Statistics (Statistics courses may be applied toward GE area requirements)
2. Psychology 320
3. Nurs 375 (Pass with C or better grade).

**PLEASE NOTE:** There may be college graduation requirements not listed on this sheet. It is the student's responsibility to know the requirements for graduation under the catalog for the semester you became a CAS student. **Refer to UH Hilo Catalog for list of major course requirements and updated list of approved General Education courses.**

### Nursing Requirements (67 semester hours)

- I. Nurs 347 Health Assessment (3) Y  
Nurs 347L Health Assessment Practicum (1) Y  
\*Nurs 350 Transcultural Care and Health Promotion (3) Y  
Nurs 351 Professional Nursing Issues and Trends (3) Y  
Nurs 352L Nursing Skills Lab (1) Y  
Nurs 353 Nursing Concepts and Skills (3) Y  
Nurs 353L Nursing Concepts and Skills Practicum (3) Y  
Nurs 355 Adult Health Care I (2) Y  
Nurs 355L Adult Health Care I Practicum (3) Y  
Nurs 356 Parent-Newborn Health Care (2) Y  
Nurs 356L Parent-Newborn Health Care Practicum (3) Y  
Nurs 357 Mental Health Care (2) Y  
Nurs 357L Mental Health Care Practicum (3) Y  
\*Nurs 358 Nursing Research (3) Y  
  
\*Satisfies HAP Requirement
- II. Nurs 410 Community Health Care (2) Y  
Nurs 410L Community Health Care Practicum (4) Y  
Nurs 455 Adult Health Care II (3) Y  
Nurs 455L Adult Health Care II Practicum (5) Y  
Nurs 456 Parent-Child Health Care (2) Y  
Nurs 456L Parent-Child Health Care Practicum (3) Y  
Nurs 457 Advanced Health Care (2) Y  
Nurs 457L Advanced Health Care Practicum (3) Y  
\*Nurs 468 Nurse Management & Leadership  
Politics of Caring (3) (Y)

**Note:** Non-clinical courses are open to RNs who are enrolled as PRNU students. Credits must be applied toward the degree within 5 years.

**Nursing Electives (3)**

- Nurs 371 Computers and Health Care (3) Y
- Nurs 394 Topics in Nursing (3) I
- Nurs 399 Directed Study (3) S
- Nurs 471 Intro to Rural/Home Health Care (3) A
- Nurs 494 Advanced Topics in Nursing (3) I
- Nurs 499 Directed Study (1-3) S

**Program Options:** Students have two program options to earn the bachelor of science degree in nursing:

**Option 1**

Students may enter the Generic BSN program whereby two years are spent fulfilling UH Hilo general education and pre-nursing or pre-core requirements. Nursing courses are introduced in the third year upon formal admission into the nursing program on a competitive available basis (See BSN admissions criteria.)

**Option 2**

Students may enter the RN/BSN completion program whereby an associate degree in nursing has already been attained. This program provides the RN/BSN candidate the option for educational advancement. Nursing courses are introduced along with general education or pre-core requirements which were not satisfied by the basic associate degree requirements as listed. Students begin the course of study upon formal admission into the nursing program on a selective space available basis. (See BSN admissions criteria.) For additional information, call 974-7760. Students in this option will follow the one year nursing course sequence listed below:

**Fall Semester**

- Nurs 347 Health Assessment (3)
- Nurs 347L Health Assessment Practicum (1)
- Nurs 350 Transcultural Care and Health Promotion (3)
- Nurs 475 Advanced Human Nutrition (3)
- Nurs Elective (3)

**Spring Semester**

- Nurs 358 Nursing Research (3)
  - Nurs 410 Community Health Care (2)
  - Nurs 410L Community Health Care Practicum (4)
  - Nurs 457 Advanced Adult Health Care (2)
  - Nurs 457L Advanced Adult Health Care Practicum (3)
  - Nurs 468 Nursing Management & Leadership:  
Politics of Caring (3)
- 30 credits

**203 General Pharmacology (3)**

Pharmaceuticals discussed with emphasis on methods and sites of administration, mechanisms of action, toxicity, rate and uses of major therapeutic agents. Intended for undergraduates in the health sciences and related fields. Prerequisites: Math 100, Bio 243, 243L, 244, 244L or consent of instructor.

**347 Health Assessment (3) (Y)**

Introduction to comprehensive health assessment of clients across the life span using critical thinking skills. Emphasis on the pathophysiologic influences on subjective and objective findings of selected systems. Detailed health assessment techniques will be introduced as well as methods of comprehensive history-taking.

**347L Health Assessment Practicum (1) (3 lab hrs.) (Y)**

Application of the nursing process in the comprehensive health assessment of clients across the life span. Emphasize the pathophysiologic and/or pathopsychologic influences on subjective and objective findings of selected systems. Detailed health assessment techniques as well as comprehensive history-taking.

**350 Transcultural Care and Health Promotion (3) (Y)**

The course introduces basic principles of teaching-learning, adult learning, group process and basic transcultural care and health promotion concepts.

**351 Professional Nursing Issues and Trends (3) (Y)**

Introduction of contemporary health reform issues and trends affecting the nursing profession. Overview of the history of nursing, significant national nursing studies, code of ethics, relationship of nursing theory to nursing practice and nursing research. Includes introduction to client care management.

**352L Nursing Skills Laboratory (1) (Y)**

Practice of basic clinical skills in a campus laboratory setting to prepare student for clinical practice in community settings. Includes faculty demonstrations, student return-demonstrations, and performance testing.

**353 Nursing Concepts and Skills (3) (Y)**

Introduction to the art and science of the professional role of transcultural nursing care. Fundamental nursing concepts, process, and practice will provide the novice nursing student with a firm foundation for advanced nursing study.

**353L Nursing Concepts and Skills Practicum (3) (9 lab hrs.) (Y)**

Introduction to the application of the nursing process in the delivery of care to medical/surgical populations. Comprehensive, faculty-guided experiences in developing a beginning knowledge base for entry into the nursing profession.

**355 Adult Health Care I (2) (Y)**

Care of adult clients with acute medical/surgical problems. Integration of pathophysiology in the understanding of human responses to health deviations. Use of the nursing process to develop individualized, culturally congruent care plans.

**355L Adult Health Care I Practicum (3) (9 lab hrs.) (Y)**

Application of the nursing process in providing individualized, culturally congruent care to adult clients with acute medical/surgical problems.

**356 Parent-Newborn Health Care (2) (Y)**

Emphasizes the nursing process in applying culturally congruent nursing care to child-bearing families.

**356L Parent-Newborn Health Care Practicum (3) (9 lab hrs.) (Y)**

Application of the nursing process in providing culturally congruent nursing care interventions to child bearing families. Supervised clinical experiences in the labor and delivery room, newborn nursery, post-partum units, as well as community meetings.

**357 Mental Health Care (2) (Y)**

Application of mental health concepts, transcultural caring and professional nursing skills in delivering mental health care. Includes study and application of treatment modalities appropriate to selected psychopathological conditions.

**357L Mental Health Care Practicum (3) (9 lab hrs.) (Y)**

Application of nursing process in the delivery of mental health care to selected populations. Faculty guided clinic experience in acute and community settings.

**358 Nursing Research (3) (Y)**

Introduction to the research process and the application of the scientific method in nursing. Pre: NURH status and consent of instructor.

**375 Applied Human Nutrition (3) (Y)**

Applied nutrition in human health and disease, and the nurse's role in supporting nutritional care. Pre: one chemistry and one anatomy/physiology course, or consent of instructor.

**394 Special Topics in Nursing (1-3)**

Intermediate topics chosen by the instructor. Topics will be selected from both the theoretical and clinical areas of professional nursing. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: NURH status and consent of instructor.

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: NURH status and consent of instructor.

**410 Community Health Care (2) (Y)**

Content will integrate nursing and community health theories. Emphasis on culturally sensitive care to families and other groups in a variety of community health delivery settings. Identification of community resources and processes for implementing change to promote community health.

**410L Community Health Care Practicum (4) (12 lab hrs.) (Y)**

Application of the nursing process in the delivery of nursing care to individuals, families, groups, and communities. Integration of community resources in collaborative relationships with community agencies to serve populations with specific health care needs.

**455 Adult Health Care II (3) (Y)**

Prevention intervention and therapeutic modalities in caring for adult clients with acute medical and/or surgical problems. Emphasis on increasing medical-surgical nursing expertise with incorporation of client management skills and more advanced problem solving.

**455L Adult Health Care II Practicum (5) (15 lab hrs.) (Y)**

Continued care of adult clients with acute medical and/or surgical problems. Emphasis on increasing medical-surgical nursing expertise with incorporation of patient management skills and more advanced problem solving.

**456 Parent-Child Health Care (2) (Y)**

Emphasizes the nursing process in the provision of safe and culturally appropriate care to children in the context of the family. Preventive health care, anticipatory guidance and health promotion in a developmental context are explored.

**456L Parent-Child Health Care Practicum (3) (9 lab hrs.) (Y)**

Application of the nursing process in delivery of nursing care to infants, children, adolescents, and their families. Focus on growth and development, health assessment and health promotion/disease prevention.

**457 Advanced Health Care (2) (Y)**

Management and leadership concepts in delivering comprehensive nursing care to clients with complex health care needs. Emphasis on critical thinking and evaluation of clinical judgment in nursing practice.

**457L Advanced Health Care Practicum (3) (9 lab hrs.) (Y)**

Application of the nursing process in the delivery of care to clients with complex health care needs using management and leadership concepts. Emphasis on critical thinking and evaluation of clinical judgment in nursing practice.

**468 Nursing Management and Leadership: Politics of Care (3) (Y)**

Overview of current health issues on the local, state, national and international levels. Emphasis on the concept of empowerment and active involvement in facilitating changes in health policies. Includes nursing management

**494 Special Topics in Nursing (1-3) (IO)**

Advanced topics chosen by the instructor. Topics will be selected from both the theoretical and clinical areas of professional nursing. The course content will vary. It may be repeated for credit, provided that a different topic is studied.

**499 Directed Studies (1-3) (S)**

Statement of planned reading or research required.

## Electives

The following nursing electives are open to non-nursing majors:

**370 Introduction to Transcultural Nursing (3) (AY)**

Introduces theories of transcultural nursing and human caring with an emphasis on exploring the caring values, beliefs, client/family lifeways and health practices of different ethnic groups and self by using culturalogical care assessment skills.

**371 Computers and Health Care (3) (Y)**

Overview of computer systems and their roles in communications and data management both within and outside of the clinical context. Impact of computerized information processing on nursing practice.

**394B Spirituality (3) (AY)**

An examination of the role of spirituality in patient care for clients of multicultural backgrounds across the lifespan. Exploration of spirituality as an integral part of self.

**471 Introduction to Rural/Home Health Care (3) (AY)**

Introduction to the theory and role of the nurse in providing culturally congruent care in rural and home settings for client/family systems. Will examine the establishment of cooperative relationships with appropriate rural agencies

**472 Women's Health Issues (3) (AY)**

Overview of preventive measures promoting health through the life cycle with emphasis on normal developmental, physiological and social needs during pregnancy and the child-bearing period.

## PACIFIC ISLANDS STUDIES

Office: EKH 266, (808) 974-7472, (808) 974-7460

**Coordinator:**

Craig J. Severance, Ph.D.

**Professors:**

James O. Juvik, Ph.D.

Craig J. Severance, Ph.D.

Sonia Juvik, Ph.D.

**Assistant Professors:**

Seri Luangphinit, Ph.D.

Peter R. Mills, Ph.D.

**Junior Specialist:**

James P. Mellon, M.A.

The interdisciplinary Pacific Islands Studies Certificate Program is an adjunct to a student's academic major. Students will have an opportunity to deepen their knowledge of Pacific Islands environments, cultures and economy through a series of discipline based courses and a capstone seminar. Course work in the certificate program focuses on the Pacific as a complex region of island states and territories with common regional concerns and reviews the problems and prospects of Pacific Islands peoples in the contemporary world.

**Certificate Requirements: 21 semester hours**

1. Required courses: Anth 200b, Anth/Geog 435 Senior Seminar; two courses out of the following three options: Anth 357, Geog 335, either Hist 316 or Hist 317; and one course from the following: Haws 175, Eng 430, a course on Pacific art.
2. Electives: 6 semester hours of discipline based Pacific courses or internships with Pacific content subject to the approval of the Pacific Studies Faculty. Students may also take discipline-based directed study from a participating Pacific Islands Studies faculty member. Discipline based courses that relate to Pacific Islands topics which allow the student to focus research papers on the Pacific may be approved for credit toward the certificate by a vote of participating faculty. Other appropriate courses may be included from time to time. Please see program coordinator for specific changes.

## PERFORMING ARTS

Office: PB-7, (808) 974-7479

### Professors:

Jacquelyn Pualani Johnson, M.A.  
John S. Kusinski, Ph.D.

### Associate Professor:

Richard A. Lee, Ph.D

### Instructor:

Amy Yamasaki, M.M.

### Theatre Manager:

Larry Joseph, A.A.

The Performing Arts Department provides a broad undergraduate program in music, drama, and dance. UH Hilo music courses encompass the areas of musicology (history and literature), music theory and composition, applied music instruction (vocal and instrumental), music education, ethnomusicology, music synthesis and computer/MIDI applications, and a full range of performing ensembles open to all qualified students, regardless of major. The Drama component offers courses in acting, directing, costuming, stage makeup, and technical theatre; courses in dance include the fields of ballet, modern, and jazz dance, choreography, and dance history.

## Music (Mus)

The music curriculum offers courses which reflect traditional methodology as well as current trends in today's musical world. Focused performance capability and strong academic achievement are significant goals for all music majors. Students may choose areas of concentration in performance, theory and composition, musicology, ethnomusicology, or music education.

### Music Major: 43 semester hours *plus ensemble performance\**

#### Option I: Performance

1. Music Theory: 16 credits (Mus 185/185L, 186/186L, 285/285L, 286L, 385).
2. Music History: 6 credits (Mus 365, 366).
3. Applied Music: 7 credits (Mus 135, 136, 235, 236, 335, 336), *and* a half-recital. Consultation with music faculty required before enrolling for applied music.
4. Class Piano: 2 credits (Mus 125, 126). Piano majors must substitute either Voice class I and II (Mus 123, 124) or advanced Applied Music (Mus 435, 436).
5. Upper Division Electives in Music Theory, Composition, Musicology, or Ethnomusicology: 12 credits (to be selected from Mus 349, 375, 462, 466, 470, 485, 487, 494).
6. Performing Ensembles: 6 semesters.\*

#### Option II: Music Theory, Composition, Musicology, or Ethnomusicology

The requirements for the Music Major-Option II are the same as those for Option I with the following exceptions:

1. Applied Music: 4 credits *only* (Mus 135, 136, 235, 236)
2. In lieu of Mus 335, 336, and the half-recital, students must either pursue Directed Studies (4 credits) *or* undertake an additional upper division music course (3 credits) from the selections listed above in Option I, #5.

**NOTE:** Because of the number of required lower-division courses, Music majors need to complete 41 upper-division credits to fulfill UH Hilo baccalaureate degree requirements. A maximum limit of 12 performing ensemble credits may be applied toward the upper-division total.

### Music Education:

Music majors may apply for teaching certificates in Elementary or Secondary Education in the state of Hawai'i in collaboration with the UH Hilo Teacher Education Program (TEP). Students pursuing Secondary Certification must complete additional music requirements in methods (Mus 123, 151, 152, 153, 155, 156), conducting (Mus 390, 391), and music education (Mus 337); these courses are not required for students pursuing

Elementary Certification. See the UH Hilo Education Program descriptions for further details on admission and state Department of Education guidelines.

### Minor: 15 semester hours *plus ensemble performance*

#### Required:

1. Music Theory: 8 credits (Mus 185/185L, 186/186L)
2. Music Literature: 3 credits (Mus 160)
3. Applied Music: 2 credits (Mus 135, 136)
4. Class Piano: 2 credits (Mus 125, 126) Pianists must substitute Voice Class I and II (Mus 123, 124)
5. Performing Ensembles: 4 semesters.

### Certificate in Performing Arts: 24 semester hours

The Certificate in Performing Arts is designed to provide a strong background for students interested in pursuing careers in music, dance and/or drama. Courses taken to satisfy General Education or Music major requirements may *also* be used to meet the requirements of the certificate.

- I. Drama 170 and two of the following courses: Drama 321, 340, 350, 360, 430, 490. (9 semester hours)
- II. Dance 150, 371, and 401. (8 semester hours)
- III. Music 160 or 170 and 4 semester hours in ensemble courses, selected from Mus 102, 401, 402, 404, 406. (7 semester hours)

All prerequisites must be completed before students will be allowed to register for upper division courses. Repeatable courses may be counted only once toward fulfilling the requirements for the Certificate.

### 100 Performing Arts Convocation (1) (Y)

A forum for Performing Arts presentations, including lectures, student recitals, and other performances. Attendance at Performing Arts and selected community programs required. Scope and sequence changes every semester. Required once for applied music students in the 35/36 sequences. Recommended for all music majors.

### 102 University Chorus (2) (S)

Large ensemble singing of traditional choral literature. Fundamentals of voice production and musicianship. Public performance required. No audition required. May be repeated for credit.

### 123 Elementary Voice Class I (1) (Y)

Fundamentals of voice production applied to vocal literature at elementary level.

### 124 Elementary Voice Class II (1) (Y)

A continuation of Mus 123. Refinement of vocal skills; study and performance of vocal literature in English and other languages. Pre: Mus 123.

### 125 Class Piano I (1) (Y)

Basic principles of piano performance. Relevant problems in piano literature at elementary level. This course is designed for music majors (or intended music majors) only. Should be taken concurrently with Mus 185. Pre: Mus 180 or placement conference.

### 126 Class Piano II (1) (Y)

A continuation of Mus 125. Application of harmonic concepts and basic keyboard techniques. Expanding repertoire of pieces at the elementary level. Pre: Mus 125.

### 151 String Methods I (2) (IO)

Basic instruction in violin, viola, violincello, and double bass for students preparing to teach instrumental music. Pedagogy, materials, and performance techniques for string instruments.

### 152 String Methods II (2)

A continuation of Mus 151. Pre: Mus 151.

### 153 Woodwind Methods (2) (IO)

Basic instruction in woodwind instruments for students preparing to teach instrumental music. Pedagogy, materials, and performance techniques for woodwind instruments.



**155 Percussion Methods (2) (IO)**

Basic instruction in percussion instruments for students preparing to teach instrumental music. Pedagogy, materials, and performance techniques for percussion instruments.

**156 Brass Methods (2) (IO)**

Basic instruction in brass instruments for students preparing to teach instrumental music. Pedagogy, materials, and performance techniques for brass instruments.

**160 Introduction to Music Literature (3) (Y)**

Appreciation of western art music through discussion, listening and reading. Study of elements, textures, forms and style characteristics. No previous music knowledge required.

**163 American Music and Popular Culture (3) (Y)**

A survey of American musical styles of the 20th century, including rock, blues, jazz, country, Motown, R&B, and other folk idioms, as well as American art music. Emphasis will be on stylistic evolution, interactions, and social context. No previous musical knowledge is required.

**165 Introduction to Jazz (3) (IO)**

A survey of classic and modern jazz in a historical framework. Study of elements, trends, genres, forms and style characteristics. Appreciation of jazz through discussion, listening and reading. No previous musical knowledge is required.

**170 Music in World Culture (3) (Y)**

Music of the non-Western world. Cultures surveyed include Polynesia, the Philippines, Indonesia, Pan-Islam, India, China, Korea, and Japan. (Same as Anth 170)

**175 Introduction to the Music of Polynesia (3) (AY)**

A general survey of the traditional and acculturated music of eight major Polynesian island groups: Tonga, Samoa, New Zealand, Cook Islands, Society Islands, Marquesas Islands, Easter Island, and Hawai'i. Music is viewed as both an organization of sound and as a product of culture and people. (Same as Haws 175)

**176 The History and Development of Hawaiian Music (3) (AY)**

A general survey of the interrelationships of traditional and acculturated Hawaiian music. Vocal music genres to be discussed include: chant; Christian hymn singing; secular choral singing; male and female falsetto singing; *Chalangalang*; *Hapa Haole*; and contemporary. Instrumental music genres include: pre-European instrumental styles; slack key guitar; 'ukulele; and steel guitar. (Same as Haws 176)

**180 Elementary Music Theory (3) (S)**

Designed for non-music majors. Aural skills and musical notation: pitch, rhythm, tonality, and chord structure. First experiences at the piano also included.

**185 Music Theory I (3) (Y)**

Designed for music majors or minors or those with sufficient musical background. Basic concepts and materials of music. General awareness of musical styles, with concentration on 18th-century norms. Principles of tonality, harmony, 4-part writing. Connecting sound and notation through writing. Must be taken concurrently with Mus 185L. Should be taken concurrently with Mus 125. Pre: placement conference.

**185L Music Theory I Laboratory (1) (Y)**

Connecting sound and notation through analysis, aural dictation, and sight singing. Taken concurrently with Mus 185.

**186 Music Theory II (3) (Y)**

Emphasis on harmonic aspects of tonal music, including all diatonic triads, dominant 7th and secondary dominants. Small forms, increased application through analysis and writing. Must be taken concurrently with Mus 186L. Should be taken concurrently with Mus 126. Pre: Music 185 and Mus 185L.

**186L Music Theory II Laboratory (1) (Y)**

Increased application of aural skills through analysis, dictation, and sight-singing. Reinforces concepts presented in Mus 186. Taken concurrently with Mus 186. Pre: Mus 185 and 185L.

**199 Directed Studies (1-3) (S)**

Permission of instructor and statement of planned reading or research required.

**225 Music Synthesis (3) (IO)**

The use of computer-controlled synthesizers in musical composition, recording and performance. Music Instrument Digital Interface procedures and applications. Pre: Mus 126, 131C (Applied Music/Piano), or conference.

**285 Music Theory III (3) (Y)**

Wider awareness of musical styles; concentration on chromaticism of the 19th century. Diatonic 7th, N6, Aug6, altered dominants, chromatic mediant, 9th, 11th and 13th chords. Large formal designs and advanced melodic/harmonic developments. Examined through analysis and writing. Must be taken concurrently with Mus 285L. Pre: Mus 186 and 186L.

**285L Music Theory III Laboratory (1) (Y)**

Expanded concepts in aural dictation and sight-singing. Reinforces concepts presented in Mus 285. Taken concurrently with Mus 285. Pre: Mus 186 and 186L.

**286L Music Theory IV Laboratory (1) (Y)**

Expanded concepts in aural dictation and sight-singing. Pre: Mus 285 and 285L.

**299 Directed Studies (1-3) (S)**

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing.

**325 Arranging/Transcription (3) (IO)**

The use of Macintosh computers and MIDI keyboards in the arrangement and transcription of several musical works for different media. Pre: Mus 186, 225, or consent of the instructor.

**337 Music Education in the Secondary School (3) (AY)**

Objectives, materials, procedures of music in secondary school. Supervised experience in public schools. Pre: Mus 186.

**349 Orchestration (3) (AY)**

Survey of instruments of the orchestra and band. Study of selected scores. Basic principles of scoring and transcribing for the orchestra or band. Two semester projects. Pre: Mus 186 or consent of instructor.

**365-366 History of Western Music (3-3) Yr. (AY)**

Development of Western music from its origins to the 20th century. Styles, schools, and composers. Pre: Mus 160 and 186, or consent of instructor.

**375 Japanese Music (3) (AY)**

Traditional, contemporary, and Western-influenced music of Japan based upon historical survey and study of major genres of Japanese music. No previous musical knowledge is required. Pre: junior standing or consent of instructor. (Same as JpSt 375)

**385 20th Century Composition Techniques (3) (AY)**

Study of the major compositional techniques and esthetics of 20th century music, including parallelism, atonality, serialism, pandiatonicism, neo-classicism, indeterminacy, extended techniques, electronic music, neo-romanticism, and eclecticism. Examine important schools of composition, analysis of major works, and composition exercises. Pre: Mus 285 or consent of instructor.

**390 Choral Conducting (3) (IO)**

Basic conducting technique and its application to the directing of choral organizations. Includes score reading, lyric diction, rehearsal techniques, and interpretative problems. Concurrent enrollment in a choral ensemble is required. Pre: Mus 186 or consent of instructor.

**391 Instrumental Conducting (3) (IO)**

Comprehensive instruction on techniques of conducting instrumental groups. Score reading, rehearsal techniques, and interpretative problems. Pre: Mus 186 or consent of instructor.

**399 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**401 Vulcan Band (2) (S)**

Rehearsals and performances for athletic events, pep rallies, and other similar events. Public performance required. May be repeated for credit. Pre: audition.

**402 Wind Ensemble (2) (S)**

Rehearsals and performances of wind/band literature. Public performance required. May be repeated for credit. Pre: audition, or consent of instructor.

**403 Jazz Ensemble (2)**

Rehearsals and performances of various styles of jazz literature. Study of phrasing, articulation, improvisation and related concepts. Public performance required. May be repeated for credit. Pre: Audition.

**404 University Chamber Singers (2) (S)**

Performance of choral literature from Renaissance to the present, including ethnic music of Hawai'i. Public performance required. May be repeated for credit. Pre: audition.

**406 (Alpha) Chamber Ensemble(s) (1) (S)**

Rehearsals and performance of chamber music for small instrumental/vocal groups. **B: Collegium Musicum (Early Music Consort); C: Vocal Music; D: Keyboard Accompanying; E: Saxophone Quartet; F: Chamber Music; G: Brass Ensemble; H: String Ensemble; I: Woodwind Ensemble; J: Percussion Ensemble; K: New Music Ensemble; L: Musical Theatre.** Public performance required. May be repeated for credit. Pre: audition and consultation.

**419 Music for Elementary Teachers (3) (AY)**

Survey of practical methods and materials used in teaching basic musical concepts in the elementary classroom; emphasis on music fundamentals, creative activities, and comprehensive musicianship for elementary students; development of skills in singing and using classroom instruments. Pre: Mus 180 or consent of instructor.

**462 Choral Music (3) (AY)**

Historical and stylistic study of choral literature from the Renaissance to the present. Pre: Mus 365 and 366, or concurrent enrollment in 366, or consent of instructor.

**466 Music of the United States (3) (AY)**

Historical study of music from the colonial period to the present. Pre: Mus 160 and 180.

**470 Art Music of Asia (3) (AY)**

Study of major genres of principal countries in a framework of aesthetics, history, organology and performance practices. Pre: Mus 160, junior standing, or consent of instructor.

**485 Form and Analysis (3) (AY)**

Structural analysis of music literature from various style periods, including standard form types and analytical techniques applicable to post-19th century music.

**487 Counterpoint (3) (IO)**

Contrapuntal procedures and techniques of the 16th (modal counterpoint) and 18th (tonal counterpoint) centuries. Pre: Mus 285.

**494 (Alpha) Special Topics in Musicology (3) (Y)**

Specialized focus on selected topics from one of the historical style periods, including composer biographies, genre studies, analytical studies, topics in the historical and sociological context of music, musicological

research issues and methodologies, and/or bibliographic studies. A: Medieval; B: Renaissance; C: Baroque; D: Classical; E: Romantic; F: 20th Century. Pre: Mus 285, 365, and 366, or consent of instructor.

**499 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

## Applied Music

Instruction is given in individual lessons for music majors and minors. One (1) credit consists of one half-hour lesson per week for 13 weeks of the semester. Two (2) credits may be earned by taking either two half-hour lessons per week, or one (1) one-hour lesson per week.

For Applied Music courses and fee structure, see Performing Arts department chair and consult instructor at the time of registration.

Applied Music fees are in addition to regular tuition.

Students enrolled in Mus 135, 136, 235, 236, 335, 336, 435, 436 are required to participate in student recitals and juries.

**135-136 First-Level Applied Music (Arr) (S)**

For music majors or performers of considerable experience. Individual instruction given in voice, piano, wind instruments, and percussion.

**235-236 Second-Level Applied Music (Arr) (S)**

For music majors or performers of considerable experience. Continuation of Mus 135-136. Pre: Mus 136.

**335-336 Third-Level Applied Music (Arr) (S)**

For music majors or performers of considerable experience. Continuation of Mus 235-236. Pre: Mus 236.

**435-436 Fourth-Level Applied Music (Arr) (S)**

For music majors or performers of considerable experience. Continuation of Mus 335-336. Pre: Mus 336.

## Drama (Dram)

**170 Introduction to Theatre (3) (Y)**

Theatre history and play analysis from the standpoint of production. Lab work in three aspects of play production: acting, directing, design.

**221 Beginning Acting (3) (Y)**

Individual exercises and group rehearsals with emphasis on voice, movement, relaxation. Performance of scenes.

**231 Oral Interpretation of Literature (3) (AY)**

Principles of interpretive reading. Textual analysis, training in individual and group performance techniques. Development, arrangement and performance of program. (Same as Comu 231)

**260 Basic Stagecraft (3) (AY)**

Introduction to beginning concepts of design and construction of scenery for the stage. Overview of the development of scenography from Greek theatre to the modern proscenium stage. Study will include two- and three-dimensional scenery, properties, and finishing techniques.

**264 Beginning Theatre Practicum (3) (S)**

Supervised work and/or performance for the beginning student in the areas of acting, stagecraft/construction, lighting, sound, and costuming. Required work on a Theatre production to utilize learned skills. Pre: Dram 170 or consent of the instructor.

**273 Radio Drama (3) (IO)**

A survey and production course in Radio Drama with emphasis on the actual production of radio drama(s) for public broadcast. Pre: Drama 170, Comu 260 or consent of instructor. (Same as Comu 273)

**318 Playwriting (3) (IO)**

Basic course in writing for the stage. Development of theme, action, and characterization for the one-act play form. Pre: consent of instructor. (Same as Eng 318)

**321 Acting Workshop (3) (Y)**

Advanced study for actors who have completed Beginning Acting. Concentrated scene work, script analysis, character development, and style study. Comparative exercises in acting for the stage and the camera. Required public performance of workshop material. Pre: Dram 221 and consent of instructor.

**340 Stage Makeup (3) (Y)**

Studio work in design and application of stage makeup. Study and development of character, corrective, and three-dimensional makeup. Required work on major production. Pre: Dram 170 or 221 or previous stage makeup experience.

**350 Stage Costume (3) (IO)**

Study of costume design, theory, and practice. Survey of historical and modern costume. Practical experience in design and construction including required work on major production. Pre: Dram 170 or 221, or consent of instructor.

**360 Technical Theatre Workshop (3) (AY)**

Study of stagecraft, lighting, and management areas comprising backstage technical support. Supervised work on major production. Required attendance at afternoon/evening rehearsals. May be repeated for a total of 6 semester hours. Pre: Dram 260.

**364 Advanced Theatre Practicum (1-4) (S)**

Supervised work and/or performance for the advanced student in one or more of the following areas: acting, stagecraft/construction, lighting, costuming, sound, makeup, publicity, arts administration, box office techniques. May be repeated for a total of 8 semester hours. Pre: Dram 264 or 340 or 350 and consent of the instructor.

Hrs/wk: Lectures 2 Lab Variable\*

\*Lab hours reflect variable credit(s):

- 1 credit=32 lab hrs./semester
- 2 credits=64 lab hrs./semester
- 3 credits=96 lab hrs./semester
- 4 credits=128 lab hrs./semester

**421 Acting Troupe (3) (AY)**

Rehearsal and performance of works from Western literature and ethnic non-Western sources, including contemporary drama of Hawai'i and the Pacific. Emphasis on ensemble performance. Refinement of individual skills and group interactions acquired in Dram 321. Public performance required. May be repeated for a total of 6 semester hours. Pre: Dram 221, 321, audition, and consent of the instructor.

**430 Directing (3) (IO)**

Basic practical course in how to direct a play. Students direct one-act plays or scenes from full length plays. Pre: Drama 170, 221, 260, or 264, and 321, and consent of instructor.

**483 Modern Drama (3) (AY)**

A study of works which have established or refined major traditions in modern theater, with some reading in critical theory. Pre: 200-level coursework in literature. (Same as Eng 483)

**490 Lyric Theatre (3) (IO)**

Extensive study of history, theory, and techniques that shaped the American Musical Theatre genre, with emphasis on major composers, choreographers, and performers. Lab work in singing, dancing, costuming, makeup, and technical requirements, leading to a final performance project. Pre: Dram 170, 221, 321 and consent of the instructor.

**Dance (Danc)****150 Introduction to Dance (3) (AY)**

History, scope, and theory of human movement. Study of the correlation of dance, music, and visual expression. Not a performance course.

**160 Ballet I (2) (Y)**

Introduction to classical ballet. Movements, techniques and appreciation of ballet. Previous dance experience not required.

**180 Jazz Dance I (2) (Y)**

Introductory course in jazz dance style and techniques. May be repeated once for credit.

**190 Modern Dance I (2) (Y)**

Basic techniques of Modern Dance as an art form. May be repeated once for credit.

**260 Ballet II (2) (Y)**

Continuation of Ballet I. Movements, techniques, and appreciation of ballet. Emphasis on developing strength, flexibility, and control in classical balletic style. Pre: Danc 160.

**280 Jazz Dance II (2) (AY)**

A continuation of Jazz Dance I. May be repeated once for credit. Pre: Danc 180 or consent of instructor.

**290 Modern Dance II (2) (Y)**

Second level Modern Dance. Designed to develop physical flexibility, body control, and a more acute rhythmic sense. May be repeated once for credit. Pre: Danc 190 or consent of instructor.

**371 Choreography (3) (Y)**

An introduction to the basic techniques of creating dance. Public performance required. May be repeated once for credit. Pre: Danc 180 or 190, consent of instructor.

**380 Jazz Dance III (2) (AY)**

A continuation of Jazz Dance II. May be repeated once for credit. Pre: Danc 280 or consent of instructor.

**401 Dance Ensemble (2) (Y)**

Preparation and performance of techniques and repertoire at the advanced level. Public performance required. May be repeated for credit. Pre: audition.

**PHILOSOPHY (Phil)**

Office: EKH 214, (808) 974-7479

**Professors:**

Ronald A. Amundson, Ph.D.  
Hsueh-Li Cheng, Ph.D.  
Barry Curtis, Ph.D.  
Lawrence L. Heintz, Ph.D.

Philosophy addresses the fundamental issues of human life, including the nature of reality, the secret of beauty, the criteria for knowledge and truth, and the difference between right and wrong. Philosophy classes generally use the Socratic method, which encourages students to develop and express their own views on philosophical questions and to critically analyze and discuss the views of others. The study of philosophy builds critical thinking skills which are useful in any job or profession requiring logical reasoning and responsible decision making. The Department of Philosophy at UH Hilo offers the full range of courses approved by the American Philosophical Association for a bachelor's degree with a major in philosophy.

**Major: 30 semester hours****Required:**

1. Phil 209 or Phil 345.
2. Phil 200, 201, 230, 310, and 315.
3. Four additional courses in Philosophy, all of which must be at the upper division level, and include at least one course in Asian/Comparative Philosophy.

**Minor: 15 semester hours in Philosophy, including at least nine semester hours at the 300-level or above, chosen from the following:**

1. Phil 200 or 201
2. Phil 209 or Phil 345.
3. One of the following: Phil 230, 310, 390, or 391.
4. One of the following: Phil 220, 315, 323, or 330.
5. One course in Asian/Comparative Philosophy at the upper division level.

**Western****100 Introduction to Western Philosophy (3) (S)**

Major philosophers, methods, and issues in Western philosophy. Discussion of such problems as our knowledge of reality, the freedom of the will, the relations between the mind and body, morality, ethics, the meaning of life, and the existence of God.

**200 History of Ancient Philosophy (3) (Y)**

Philosophy of the Pre-Socratics, Plato, Aristotle and Roman Thinkers.

**201 History of Modern Philosophy (3) (Y)**

From the Renaissance to the 19th century. Phil 200 recommended.

**209 Reasoning (3) (Y)**

Informal logic: Study of practical reasoning, argument, and the use and misuse of language. Emphasis on development of critical thinking skills.

**220 Social Ethics (3) (Y)**

Contemporary ethical issues, such as abortion, euthanasia, the death penalty, sexual equality, sexual integrity, discrimination and reverse discrimination, violence, pornography, ethnic injustice, and environmental and population control.

**230 Belief, Knowledge and Truth (3) (Y)**

The sources and limits of human knowledge. Classical and contemporary epistemological theories, and their application to the everyday search for knowledge.

**299 Directed Studies (1-3) (IO)**

Statement of planned reading or research required. Pre: sophomore standing and consent of instructor.

**310 Metaphysics (3) (Y)**

Puzzling problems in Western thought, such as the nature of personal identity, the freedom of the will, time, and the relation between mind and body. Pre: previous work in philosophy.

**315 Ethical Theory (3) (Y)**

Classical and contemporary theories of right and good. Pre: previous work in philosophy.

**320 Social and Political Philosophy (3) (AY)**

Good and right applied to economic, political, and religious establishments; obligation, freedom of dissent, capital punishment, violence, rights, revolution, and war. Pre: previous work in philosophy; Phil 220 recommended.

**323 Professional Ethics (3) (AY)**

Professional conduct is being questioned as never before—lawyers, physi-

cians, engineers, accountants, etc., are criticized for disregarding the rights of clients and the public interest. The course addresses the ethical problems of “the professions” in general and will focus on professions in business, law, and health care. Pre: previous course work in philosophy.

**325 Philosophy of Law (3) (AY)**

Problems and controversies in the nature of law and its bearing on human conduct. Topics: legal and moral obligation, obedience and respect, enforcement of morality, punishment and responsibility, justification of practices such as plea bargaining, bail, prosecutorial discretion, etc. Pre: previous work in philosophy.

**330 Aesthetics (3) (IO)**

The aesthetic object, form in art, representation, meaning in art, and claims of knowledge in art. Pre: previous work in philosophy and in art or music.

**340 Philosophy of Religion (3) (AY)**

Philosophical problems in religious beliefs and religious knowledge. The existence of God, immorality, the problem of evil. Pre: previous work in philosophy or Religious Studies. (Same as Rels 340)

**345 Symbolic Logic (3) (Y)**

Techniques of symbolic logic, including propositional logic, predicate logic and the logic of relations.

**360 Existentialism (3) (IO)**

The themes which recur in the works of existential philosophers from the 19th century to the present. Pre: junior standing or consent of instructor. (Same as Rels 360)

**380 Recent British and American Philosophy (3) (IO)**

Recent themes in Anglo-American thought, including analytic and ordinary language philosophy. Pre: previous work in philosophy.

**381 Philosophy of Ludwig Wittgenstein (3) (AY)**

Topics in the philosophy of Ludwig Wittgenstein, such as: meaning, understanding, pain private language, “family resemblance,” language-games, knowledge and certainty, other minds, forms of life and the purpose of philosophy. Pre: previous work in philosophy.

**390 History and Philosophy of Science (3) (AY)**

Natural science as a knowledge-seeking activity. Major episodes in the history of the physical and biological sciences; philosophical understanding of scientific observation, theory, and revolutionary change. Pre: previous work in philosophy or consent of instructor.

**392 Biology and Philosophy (3) (AY)**

Philosophical examination of the implications of modern biology for how we understand ourselves and our relations to the natural world. Evolutionary, genetic, developmental, and ecological topics will be discussed. Pre: previous work in philosophy and biology, or consent of instructor. (Same as Biol 392)

**393 Normality, Abnormality, and Society (3) (AY)**

Philosophical study of how human diversity interacts with social norms. Topics include health and illness, disability, gender, and sexual orientation. Perspectives from biology and the social sciences are included in a study of how beliefs about normality vary between cultures, change through time, and affect human relations. Pre: Previous work in philosophy or consent of instructor. Same as WS 393.

**399 Directed Studies (1-3) (IO)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**494 Special Topics in Philosophy (1-3) (IO)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: senior standing and consent of instructor.

**497 Seminar in Philosophy (3) (IO)**

For serious students of philosophy. The topics vary and the course may thus be repeated for credit.

**499 Directed Studies (1-3) (IO)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

## Asian and Comparative

**101 Introduction to Eastern Philosophy (3) (S)**

Philosophical teachings of Hinduism, Buddhism, Jainism, Confucianism, Taoism, Neo-Confucianism, and Shintoism.

**300 History of Indian Philosophy (3) (IO)**

The historic Indian schools of thought, Brahmanism, Jain, Carvaka, Buddhist, Samkyha, Yoga, Nayaya, Vaisheskika, Mimamsa, and Vedanta. The main philosophers and thinkers of India including Gandhi, Radhakrishnan, and Tagore. Pre: previous work in philosophy or religious studies is recommended. (Same as Rels 303)

**301 History of Chinese Philosophy (3) (Y)**

History of the Confucian, Taoist, and Buddhist philosophies and their interaction in China. The pivotal thinkers including Mao. Pre: previous work in philosophy or religious studies is recommended. (Same as Rels 304)

**302 History of Buddhist Philosophy (3) (AY)**

History of Buddhist philosophy and its cultural influence and intellectual development in Asia and Hawai'i. Pre: previous work in philosophy or religious studies is recommended. (Same as Rels 302)

**430 Philosophy of Zen (3) (AY)**

Chief philosophical teachings of Zen, its methods and cultural influences. Comparative study of Zen and Western thought. Pre: previous work in philosophy or religious studies, or consent of instructor. Phil 302 is recommended. (Same as JpSt 430, Rels 430)

**435 Philosophy of Tao (3) (IO)**

Philosophical ideas of Lao Tzu, Chuang Tzu, and the Neo-Taoists, and their influences upon the lives of the Chinese and Japanese peoples. Comparative study of Taoist and Western philosophy. Pre: previous work in philosophy or religious studies, or consent of instructor. Phil 301 is recommended. (Same as Rels 435)

**450 Mahayana Buddhist Philosophy (3) (Y)**

Important tenets and major schools of Mahayana Buddhist philosophy in India, China, Japan, Tibet, and Hawai'i. Comparative study of Mahayana and Western philosophy. Pre: previous work in philosophy, religious studies, or consent of instructor. Phil 302 is recommended. (Same as JpSt 450, Rels 450)



photo by Walter Dudoit

## PHYSICS (Phys) and ASTRONOMY (Astr)

**Office:** LS2, (808) 974-7383

**Professors:**

Richard A. Crowe, Ph.D.  
Robert A. Fox, Ph.D.  
William D. Heacox, Ph.D.

**Associate Professor:**

Michael J. West, Ph.D.

**Instructor:**

Norman G. Purves, M.S.

**Technician:**

Roy R. Thompson, M.S.

The Bachelor of Science in Astronomy at UH Hilo is the first such undergraduate university program within the State of Hawai'i. It has the principal aim of providing training and instruction at the undergraduate level for students seeking careers in astronomy and related fields. To accomplish this, the new program incorporates the following elements: (a) emphasis on training in observational astronomy, thus building on the resource represented by the astronomical observatories atop Mauna Kea; (b) flexibility to allow students to prepare adequately for a wide variety of career choices, such as: entrance to astronomy graduate school, training for technical careers in astronomy observatory support roles, preparation for careers in related fields such as planetary geosciences or remote sensing, and preparation of teachers, who wish to incorporate astronomy into the public school curriculum. In addition, our Observatory Internship program, to be coordinated with institutions based in the University Research Park, will offer students a unique opportunity to gain practical or research experience at astronomical observatories atop Mauna Kea prior to obtaining their degree.

One NASA-funded support program is available to students seeking careers in astronomy and related fields. The Space Grant Fellowship Program offers competitive fellowships to students of exceptional promise, usually during their senior year; the fellowships provide a full tuition waiver and \$1,000/semester stipend. Space Grant Fellows conduct a proposed research project under the supervision of a faculty mentor, and participate in University-wide Space Grant College symposia. Funding for travel to meetings is available from this program.

The Physics degree program allows the student a wide degree of latitude in preparation for chosen career aspirations. Candidates for the degree of Bachelor of Arts in Physics may elect to pursue study in either a traditional curriculum with a variety of courses in classical and modern physics, or may choose a more specialized curriculum suitable for careers in such topics as astronomy, geology/geophysics, mathematics, or computer science. Modern physics and astronomy laboratory equipment is used in all student training; the use of computers is emphasized throughout the advanced curriculum. Advanced students carry out a senior undergraduate thesis or research project under the supervision of one of the physics/astronomy faculty.

## PHYSICS (Phys)

**I. Physics Major Requirements ( 37 semester hours)**

1. Phys 170-170L, 171-171L, 270, 271.
2. Phys 330, 331, 341, 430-431, 432-433, 495A-495B.

**II. Physics Supplemental Requirements (20 semester hours):**

1. Math 205, 206, 231, 300
2. Two additional elective mathematics courses selected with the approval of the Department.

**III. Electives (12 semester hours):**

Twelve semester hours selected from the Natural Sciences with the approval of the Department. Students are strongly encouraged to consult with their faculty advisor regarding choices of elective courses appropriate to their career aspirations. A student enrolled as a physics major, or who

is working toward a minor in physics, having successfully completed Physics 170 and 170L, automatically fulfills one (Physics) of the three disciplines under the Natural Sciences category of the General Education Area requirements.

#### **Minor in Physics: 19 semester hours**

Courses required for a minor in Physics:

Phys 170-170L, 171-171L, 270, and six additional semester hours of physics in courses numbered Phys 271 or greater.

#### **106 College Physics I (3) (Y)**

Basic principles of physics designed for students in non-physical science and education majors. Covers mechanics, waves and heat. Pre: three years of high school math or equivalent, accompanied by lab, Phys 170L.

#### **107 College Physics II (3) (Y)**

Basic principles of physics designed for students in non-physical science and education majors. Covers electricity and magnetism, optics and modern physics. Pre: Physics 106, accompanied by lab, Phys 171L.

#### **115 Physics for the Liberal Arts (3) (Y)**

Designed for non-science majors. Basic physical concepts through student's active participation and practical experience in a manner that is simple and intuitive.

#### **120 Weather and Climate of Hawai'i (3) (Y)**

For non-science majors and prospective science teachers. Basic meteorology, sun-earth-ocean-atmosphere interrelationships, weather types, seasonal changes, trade winds, clouds, rainfall, with examples drawn from the local weather and climate. (Same as Geog 120)

#### **170 General Physics I-Particles and Waves (4) (Y)**

Introductory physics designed for students majoring in physical sciences or engineering. Covers mechanics of particles; rigid bodies and fluids; wave motion; thermodynamics and kinetic theory. Pre: Math 205 (or concurrent).

#### **170L General Physics Laboratory I (1) (1 3-hr. lab) (Y)**

A required laboratory supplement for 170; covers basic principles of experimentation and physical measurement. Pre: registration in Phys 106 or 170.

#### **171 General Physics II-Electricity and Magnetism (4) (Y)**

Introductory physics designed for students majoring in physical sciences or engineering. Covers electrostatics, conductors and current, dielectrics, magnetic fields and induction, Maxwell's equations and basic optics. Pre: Phys 170, Phys 170L, Math 206 (or concurrent).

#### **171L General Physics Laboratory II (1) (1 3-hr. lab) (Y)**

A required laboratory supplement for Physics 171; covers basic principles of experimentation and physical measurement. Pre: Physics 106 or 170, 170L, registration in Phys 107 or 171.

#### **260 Computational Physics and Astronomy (3) (Y)**

Computational techniques in physics and astronomy, with an emphasis on the use of computer engineering and scientific software. Topics covered include approximation techniques, numerical modeling of physical systems, solutions of non-linear and inverse problems, Fourier analysis and filtering, and elementary statistical and numerical concepts. Pre: Phys 170/171, Math 205/206 (Same as Astr 260)

#### **270 General Physics III-Introduction to Modern Physics (3) (Y)**

Survey of contemporary physical theory and applications: special relativity; quantum physics: atomic structure and spectra, molecular and solid-state physics; nuclear structure and reactions; elementary particles and fundamental forces. Pre: Phys 170-171 and credit or registration in Math 231.

#### **271 General Physics IV-Classical Mechanics (3) (Y)**

The classical kinematics and dynamics of constant, time-dependent and position-dependent forces. Particle, rigid body and fluid dynamics; central force motion; normal modes of vibrations; introduction to Lagrangian

and Hamiltonian formalism. Pre: Phys 170-171 and credit or registration in Math 300.

#### **299 Directed Studies (1-3)**

Permission of the instructor and a statement of planned reading or research is required. Pre: sophomore standing.

#### **330 Electromagnetism (3) (AY)**

Electrostatics; electric and magnetic properties of materials; Maxwell's equations of electromagnetism; electrodynamics; electromagnetic waves and boundary value problems. Pre: Phys 171, Math 300.

#### **331 Optics (3) (AY)**

Modern optics and the design of optical instruments: interactions of electromagnetic radiation with matter; paraxial and Seidel optical theory; design of simple optical instruments; aberrations and stops; design of telescopes, spectrographs, and interferometers; photon optics; Fourier optics. Pre: Phys 270, Math 300.

#### **341 Thermodynamics (3) (AY)**

Thermodynamic properties of matter; equations of state; heat transfer; classical statistical treatment of kinetic theory. Pre: Phys 171, Phys 270.

#### **399 Directed Studies (1-3)**

Permission of the instructor and a statement of planned reading or research is required. Pre: junior standing.

#### **430-431 Modern Physics (3-3) Yr. (AY)**

Introductory quantum mechanics and its applications to nuclear, atomic, and particle physics. Quantum mechanical treatment of molecular structure and spectra, and the thermal properties of matter. Pre: Phys 170-171, 270, 341.

#### **432-433 Senior Laboratory/Thesis Project (2-2) Yr. (Y)**

Individual research projects conducted in the college laboratory, library, or observatory; or at an external research facility; under the direct guidance of a member of the physics and astronomy faculty or an affiliated faculty member. Students must propose and complete a research project, and present a final report to the department. Permission of the department is required for registration. (Same as Astr 432-433)

#### **494 Special Topics in Advanced Physics (3) (IO)**

Detailed study of selected topics in advanced physics, topic to be chosen by instructor. Course content will vary; the course may be repeated for credit, provided a different topic is studied. Possible topics include: solid-state physics; Lagrangian and Hamiltonian dynamics, advanced thermodynamics or quantum mechanics. Pre: consent of instructor.

#### **495A-495B Seminar (1-1) Yr. (S)**

Seminar presentations of topics in the physical sciences by faculty, enrolled students and invited speakers. The first semester (495A) is taken CR/NC; in the second semester (495B), students are required to present a seminar for a letter grade. Pre: senior standing or consent of instructor. (Same as Astr 495A-495B, Chem 495A-495B, Geol 495A-495B and Math 495A-495B.)

#### **499 Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required. Pre: senior standing.

## **ASTRONOMY (Astr)**

### **Astronomy Major**

#### **I. General Education Requirements (60 semester hours, 10 included in Part II)**

##### **A. Communication Skills (6 semester hours)**

1. English composition requirement (Eng 100 or 100T or ESL 100) must be fulfilled before completing 24 credits.
2. Eng 309

**B. Quantitative and Logical Reasoning (8 semester hours)**

Math 205, 206

**C. World Cultures (6 semester hours)**

Selected from: Anth 100; Anth/Mus 170\*; Eng 253, 254; Geog 102; Hist 151, 152; Hon 200, 201, 202\*, 203\*; Rels 152\*, 153

**D. Humanities (12 semester hours)**

- The Arts (3 semester hours):  
Selected from: Art 101, 121, 122, 123, 270, 280\*; Dram 170; Eng 370; Haws/Mus 175\*, 176\*; Mus 160, 163, 180; Mus/Anth 170\*
- Thought, Knowledge and Values (3 semester hours):  
Selected from: Haws 111\*, 211\*, 213\*; Hon 200, 201, 202\*, 203\*; Phil 100, 101\*, 200, 201, 220, 230, 390; Rels 152\*, 153; WS 151
- Literature and Languages (6 semester hours):  
Selected from: Anth 121; Ling 102; Eng 200, 251, 252, 253, 254; Chn 101\*, 102\*; Fr 101, 102; Haw 101\*, 102\*, 107\*; Hon 200, 201, 202\*, 203\*; Jpns 101\*, 102\*, 105\*, 131-132\*; Span 101, 102

**E. Social Sciences (12 semester hours)**

One course each from four of the following disciplines:

- Anth 100, 115, 121
- Econ 100, 130, 131
- Geog 101, 103, 105
- Hist 151, 152, 281, 282
- PolS 101, 220
- Psy 100
- Soc 100, 240, 260

**F. Natural Sciences (16 semester hours, 10 included in Part II)**

- Phys 170-170L, 171-171L
- Six additional semester hours from courses in Biol, Chem, CS or Geol.

**II. Astronomy Major Requirements (49 semester hours)**

- Astr 180, 181, 250, 260, [350, 351] or [384, 386], 432-433, 495A-495B
- Phys 170-170L, 171-171L, 270, 271, 331
- Six semester hours selected from Physics or Astronomy, numbered 300 or greater, not including credits earned in Astr 400.

**III. Astronomy Supplemental Requirements (9 semester hours)**

Math 231, 232, 300

**IV. General Electives (12 semester hours)**

Any course offered by UH Hilo not used to fulfill the above requirements.

**V. Additional Requirements:**

- Minimum 2.0 cumulative GPA and 2.0 or better in every course in Astr, Phys, and Math stipulated in Parts I.B, II, and III above.
- Minimum of 30 upper division credits.
- Hawaiian/Asian/Pacific requirement\*
- Writing Intensive (WI) course requirements.

\* Item meets the Hawaiian/Asian/Pacific requirement.

**Minor in Astronomy: 15 semester hours****A. Required courses for a minor in Astronomy:**

- Astr 180, 181, 250 (Pre: Math 104G)
- Six semester hours selected from Astronomy courses numbered 300 or greater, not including credits earned in Astr 400.

**Minor in Earth and Space Science: 24 semester hours****B. Courses required for a minor in Earth and Space Science:**

- Astr 110L, 180, 181, 384, 386
- Geol 111-111L, 112-112L, 205

**110 General Astronomy (3) (S)**

A survey of modern astronomy intended for non-science majors; the structure and evolution of the solar system, stars, stellar systems, and the Uni-

verse. If students desire to take Astr 110, 180, and 181, they may receive credit for Astr 110 only if it is taken prior to taking Astr 180 and Astr 181.

**110L General Astronomy Laboratory (1) (1 3-hr. lab) (S)**

Demonstration of astronomical principles through laboratory observations and analysis of astronomical data. Not required for Astr 110. Pre: credit or registration in Astr 110, Astr 180, or Astr 181.

**130 Introduction to Space Science (3) (Y)**

An introduction to space science and related subjects. Topics discussed are the contents of the solar system and of near-Earth space, history and physical principles of space flight, remote sensing of the Earth from space, space habitats and manned missions to the planets, the sociological impact of space exploration, and the prospects for life elsewhere in the Universe.

**150 Life in the Universe (WWW) (3)**

The possibility that life might exist elsewhere in the universe has fascinated human beings ever since our ancestors first gazed into the starry sky. In this course, the question of extraterrestrial life is considered from astronomical, biological, and sociological perspectives. Topics include planets, stars and galaxies, the Big Bang, the origin and evolution of life on Earth, searches for extraterrestrial life, and more. A non-mathematical course for non-science majors who want to explore astronomy.

**180 Principles of Astronomy I (3) (Y)**

A survey of modern solar system astronomy with emphasis on the underlying physical principles. Topics discussed include the celestial sphere and aspects of the night sky, the structure and evolution of the Sun's planetary system, comparative planetology, and theories of the formation of planetary systems. Intended for science majors and prospective science teachers. The student should have a good operational familiarity with high school algebra. If students desire to take Astr 110, 180, and 181, they may receive credit for Astr 110 only if it is taken prior to taking Astr 180 and Astr 181.

**181 Principles of Astronomy II (3) (Y)**

A survey of modern stellar, galactic, and extragalactic astronomy, with emphasis on the underlying physical principles. Topics covered include stellar structure, interstellar environments and the formation of stars, stellar evolution and death, the structures of galaxies, and cosmology. Intended for science majors and prospective science teachers. The student should have a good operational familiarity with high school algebra. If students desire to take Astr 110, 180, and 181, they may receive credit for Astr 110 only if it is taken prior to taking Astr 180 and Astr 181. Pre: Astro 180.

**250 Observational Astronomy (3) (Y)**

An introduction to the tools and techniques of observational astronomy: astronomical time and coordinate systems, photometric systems and magnitudes, principles of telescopes and their operation, introduction to modern astronomical instruments, analysis of astronomical data. Coursework includes observations with small telescopes, and tours of the observatories on Mauna Kea. Pre: Astr 180, 181; Math 104G.

**260 Computational Physics and Astronomy (3) (Y)**

Computational techniques in physics and astronomy, with an emphasis on the use of computer engineering and scientific software. Topics covered include approximation techniques, numerical modeling of physical systems, solutions of non-linear and inverse problems, Fourier analysis and filtering, and elementary statistical and numerical concepts. Pre: Phys 170/171, Math 205/206 (Same as Phys 260).

**299 Directed Studies (1-3) (IO)**

Permission of the instructor and a statement of planned reading or research is required. Pre: sophomore standing.

**350 Stellar Astrophysics (3) (AY)**

Stellar astronomy from a modern, physical viewpoint: principles of stellar structure; stellar energy sources and evolution; radiative transfer and the structure of stellar atmospheres; multiple and variable stars. Pre: Astr 181, Phys 271, Phys/Astr 260.

**351 Galactic & Extragalactic Astrophysics (3) (AY)**

The astronomy of galaxies and the large-scale structure of the Universe from a modern, physical point of view: the structure, contents, dynamics, and evolution of the Milky Way and of other galaxies; clusters of galaxies; the formation of galaxies; the extragalactic distance scale and the large-scale structure of the Universe; observational cosmology. Pre: Astr 181, Phys 271, Phys/Astr 260.

**384 Comparative Planetology (3) (AY)**

Study of the geology and geophysics of Earth-like planets and satellites in the solar system, with emphasis on understanding terrestrial geology in a broader, astronomical context. Topics covered: major processes determining structure and surface features of planets and techniques for remote sensing. Pre: Geol 112, Astr 180. (Same as Geol 384).

**386 Comparative Planetary Atmospheres (3) (AY)**

Study of the structure, dynamics, and evolution of the atmospheres of solar system planets and satellites, with emphasis on understanding the climatology and meteorology of the Earth in a broader, astronomical context. Discussions will include the stability of the Earth's climate and techniques of remote sensing. Pre: Geol 112, Astr 180. (Same as Geol 386).

**399 Directed Studies (1-3) (IO)**

Permission of the instructor and a statement of planned reading or research is required. Pr: Junior standing.

**400 Observatory Internship (1-6) (IO)**

Cooperative education experience with student employed in an astronomical observatory or research facility on the Island of Hawai'i. One credit is granted for each full-time working month, or equivalent thereof, to a limit of 6 credits (such credits may not be counted as upper-division Astr electives for the purpose of fulfilling that requirement for the B.S. degree or minor in Astronomy). Pre: consent of department.

**432-433 Senior Laboratory/Thesis Project (2-2) Yr. (Y)**

Individual research projects conducted in the college laboratory, library, or observatory; or at an external research facility; under the direct guidance of a member of the physics and astronomy faculty or an affiliated faculty member. Students must propose and complete a research project, and present a final report to the department. Permission of the department is required for registration. (Same as Phys 432-433).

**440 Planetary Remote Sensing (3) (IO)**

Principles and practices of remote sensing of the surfaces and atmospheres of the terrestrial planets, with special emphasis on Earth remote sensing and on image analysis and interpretation with computer assistance. Topics covered include the interaction of electromagnetic radiation with surfaces and atmospheres; active and passive remote sensing systems; the interpretation of multi-spectral data; image analysis and computer enhancement; remote sensing platforms and the Earth Observation System. Pre: Astr 180, Phys 330, 331, Phys/Astr 260.

**450 Instruments and Techniques (3) (AY)**

A course in current astronomy observational instruments and techniques, with emphasis on "hands-on" use of instruments to acquire data with research telescopes on Mauna Kea. Topics covered include optical and infrared photometric instruments, CCD and IRCCD cameras, astronomical spectrographs and interferometers, advanced data analysis. Pre: Astr 250, Phys 331, Phys/Astr 260.

**460 Gravitation and Cosmology (3) (IO)**

An introduction to Einstein's General Theory of Relativity, with emphasis on astronomical applications: the curvature of space-time and the principle of equivalence; gravitational collapse and black holes; the large-scale structure of the Universe; modern cosmology. Pre: Phys 270, Math 232.

**470 Astrodynamics (3) (IO)**

An introduction to the applications of gravitational dynamics: celestial mechanics; the dynamics of stellar systems; orbits and trajectories of spacecraft. Pre: Phys 271, Phys/Astr 260, Math 300.

**494 Special Topics in Astrophysics (3) (IO)**

Detailed study of selected topics in astrophysics, to be chosen by the instructor. Course content will vary, and may be repeated for credit, provided a different topic is studied. Pre: permission of instructor.

**495A-495B Seminar (1-1) YR. (S)**

Seminar presentations of topics in the physical sciences by faculty, enrolled students and invited speakers. The first semester (495A) is taken CR/NC; in the second semester (495B), students are required to present a seminar for a letter grade. Pre: senior standing or consent of instructor. (Same as Chem 495A-495B, Geol 495A-495B, Math 495A-495B, and Phys 495A-495B).

**499 Directed Studies (1-3) (IO)**

Permission of the instructor and a statement of planned reading or research is required. Pre: Senior standing.

**POLITICAL SCIENCE (PoIS)**

**Office:** EKH 214A, (808) 974-7460

**Professors:**

A. Didrick Castberg, Ph.D.

Phillip A. Taylor, Ph.D.

**Associate Professors:**

Regina Titunik, Ph.D.

Robert P. Watson, Ph.D

**Assistant Professor:**

Enbao Wang, Ph.D

The Political Science program at the College of Arts and Sciences is designed to provide students with exposure to a broad range of topics within contemporary political science. All the major subfields in political science--American Politics, Comparative Politics, International Relations, Political Theory, Public Administration and Public Law--are offered in the major. Political science majors most often pursue careers in law, government, interest groups and (with supplementary coursework) journalism, teaching and business. Students majoring in other fields where they can anticipate interacting with government officials (for example in business) may benefit from the minor in political science. Certain outstanding political science majors will be invited by the political science faculty to write a senior thesis, a research effort which will be assigned and guided by an individual faculty member.

**Major: 36 semester hours****1. Required courses:**

PoIS 101 Intro to American Politics

PoIS 220 Intro to Legal Systems

PoIS 242 Intro to International Relations

PoIS 251 Intro to Comparative Government

PoIS 301 Modern Political Ideologies

PoIS 380 Methods of Research

- At least one 400-level seminar course (preferably in an area or sub-field designated by the student as their emphasis or area of concentration). Students must complete at least one course in the area/sub-field of the particular seminar course as a pre-requisite prior to enrolling in the seminar course.

- 15 credits of upper-division (300-level or above) course electives.

**Minor: 21 semester hours****1. Required courses:**

PoIS 101 Intro to American Politics

- Any three courses of the following:

PoIS 220 Intro to Legal Systems

PoIS 242 Intro to International Relations



PolS 251 Intro to Comparative Government  
PolS 301 Modern Political Ideologies

3. Three upper-division (300-level and above) courses

### Certificate in International Studies

The International Studies Certificate integrates a wide variety of existing courses into a cohesive whole focusing on international issues. This program of study is designed to prepare students for career opportunities in the new world system; a world system in which nongovernmental actors are proliferating, global communications networks multiplying, world travel expanding and in which states are becoming increasingly interdependent. The Certificate is particularly useful for students pursuing careers in the foreign service, international institutions, nongovernmental international organizations, international business and tourism. The International Studies Certificate aims both to ready students for careers in the new world system and to foster global understanding.

The International Studies Certificate requires two years of a foreign language with prerequisite preparation in general education courses that emphasize world geography and culture. The core courses, also at the lower division level, emphasize international political and economic structures and interrelationships. The student then chooses an area for concentrated study. Students can either choose to concentrate in the area of international relations or in the area of tourism (see listing under Business Administration for Tourism Concentration Option). The concentrations are comprised of upper-division courses, which consider issues in a global context and stress cross-national understanding. The Certificate is notable for having a capstone seminar study or study abroad feature providing "hands-on" experience for the student.

The International Relations Concentration Option is intended to familiarize students with the relations among nations and other actors in the international system. This option will focus on the institutions and agencies through which states and groups of people interact at the global level. Consideration will also be given to the political, social and cultural practices of the different people who comprise the global system. This option is particularly useful for students pursuing careers in international service or in international business or nongovernmental organizations.

**General Education Co-Requisites (12 credits):** Select four courses from: Anth 100, Anth/Ling 121; Geog 102, 103; Hist 151, 152, Mus 170.

**Program Requirements (22 credits):** First year language (8 credits); Second year language (8 credits); Core courses (6 credits): PolS 242 or PolS 251; Econ 210.

**International Relations Concentration Option (12 credits):** Select four courses from the following: Anth 336; Econ 360; Geog 312, 350; PolS 340, 342, 345, 351, 353; 355; Soc 345.

**Capstone Experience (3-6 hours):** Seminar Study: PolS 440S, PolS 450S.

#### 101 Introduction to American Politics (3) (S)

Organization and functioning of the American political system at the national level.

#### 220 Introduction to Legal Systems (3) (Y)

The legal system of the U.S.—state and federal courts, judges, attorneys, and law enforcement personnel; civil and criminal law and procedure.

#### 231 Politics of Hawai'i (3) (IO)

Hawai'i's political culture, leadership patterns and recruitment, voter participation in politics, role of institutions, voting analysis, local political parties, and interest groups.

#### 242 Introduction to World Politics (3) (Y)

The theory and substance of international politics, with emphasis on the international behavior of nations. Topics include war, regional integration, the United Nations, and the gap between rich and poor nations.

#### 251 Introduction to Comparative Government (3) (AY)

Contemporary approaches to comparative government, and comparative analysis of selected national governments.

#### 299 Directed Studies (1-3) (S)

Statement of planned reading or research required. Pre: sophomore standing and consent of instructor.

#### 300 History of Political Thought: Ancient to Modern (3) (Y)

Political thought from ancient political philosophy to the advent of modern liberal democracy. Major thinkers include Plato, Aristotle, Machiavelli, Hobbes and Locke.

#### 301 Modern Political Ideologies (3) (Y)

Liberalism and its ideological rivals: conservatism, communism and fascism. Precursors and exponents of these ideologies including Burke, Marx and Nietzsche.

#### 305 Organizational Theory and Analysis (3) (AY)

Contemporary theories and techniques used in the analysis of organizations. Designed for students intending careers in public administration or the human services. Pre: junior standing or consent of instructor. (Same as Soc 305)

#### 321 Constitutional Law (3) (AY)

Civil rights and civil liberties—the relationship between the individual and the government in such matters as freedom of expression, freedom of the press, religious freedom, the rights of the accused, freedom from discrimination, and the right of political participation. (Formerly PolS 421)

#### 322 Criminal Justice (3) (Y)

An examination of the criminal justice system, its structure and its function, with emphasis on the rights of the accused as exemplified in appellate court decisions. Pre: PolS 220 or consent of instructor. (Formerly PolS 422)

#### 324 Crime and Delinquency (3) (IO)

Crime and delinquency; types of adult and juvenile offenders; theories of crime and delinquency; police, courts, prisons, probation, and parole in relation to criminal and delinquent behavior. Pre: Soc 100 or consent of instructor (Same as Soc 324)

#### 330 Public Policy Issues (3) (Y)

National problems and those specifically affecting certain segments of the population; standards for judging proposed or actual solutions to these problems. (Formerly PolS 230)

#### 331 Presidency and Congress (3) (AY)

An examination of the institutions of the Presidency and the Congress and an analysis of the history, major office holders, processes, and functions of these American institutions.

#### 332 Politics of Race and Gender (3) (Y)

A survey of the historic, legal, political, and social forces shaping society's construction of race, ethnicity, and gender; notions of power and the political significance of race and gender are explored.

#### 335 Environmental Politics and Policy (3) (AY)

An examination of the major environmental and natural resource problems facing society today. Topics covered will include air and water pollution, energy development, and land use. (Formerly PolS 435)

#### 336 Political Anthropology (3) (AY)

A cross-cultural examination of political systems, political competition and dispute settlement. Consideration of political figures and political action in pre-state societies, early and modern states. Pre: Anth 100 and PolS 101 or consent of instructor. (Same as Anth 336)

#### 340 U.S. Foreign Policy (3) (Y)

The policy-making process with special attention to the role of the President, the Congress, the military, organized lobbies, and the public. Pre: PolS 101 or consent of instructor. (Formerly PolS 440)

**341 Women and War (3) (AY)**

An examination of warfare and women's involvement in this activity. Attention given to military history, the organizational requirements of warfare, the effects of war on women and the changing role of women in the armed forces. (Same as WS 341)

**342 International Law (3) (AY)**

Development, functions, and sources of public international law. Survey of major areas: law of the sea; laws of air and space; laws of warfare; pacific settlement of disputes; and rule-making in international organizations. Pre: PolS 242 or consent of instructor.

**345 Model United Nations (2) (S)**

An examination of the organization of the United Nations, its rules of procedure and major UN issues. The course prepares selected students to represent the University at the National MUN (New York) or Western MUN (San Francisco). May be repeated three times for credit, but only (4) credits may be applied to the major.

**351 Politics of China (3) (AY)**

Various aspects of contemporary Chinese politics in terms of elite patterns, institutional roles, and the responses by the masses. Areas to be covered include: Mao's ideology, shifts in development strategy, impact of the Cultural Revolution, and changes and reform under Deng Xiaoping. Pre: PolS 251 or consent of instructor.

**353 Politics of Japan (3) (Y)**

Aspects of Japanese politics, emphasizing the post-1945 period. Topics include political development and change, the political economy of Japan, major political institutions and organizations, policy-making processes, and controversial political issues. (Same as Jpst 353)

**355 International Political Economy (3) (AY)**

Topics include world powers and the world economic systems, the third world economic development, political and economic reforms, and Asian development models. Pre: Econ 100, or PolS 242 or consent of the instructor.

**360 Public Administration (3) (Y)**

Public administration as a major component in the American political process and of public policy making and the crucial role administrators play in that process.

**380 Methods of Research (3) (Y)**

The logic and approaches used by social scientists; concept formation, design of research projects, choice of techniques, and interpretation of results.

**391 Internship (3-12) (S)**

Application of knowledge and skills in a public, private, or government agency/setting. May be taken for a total of 12 credits, only six of which can apply to the Sociology major or three to the minor, and a total of 15 credits of PolS/Soc 391 and PolS 481 may be applied to the PolS major. Pre: consent of instructor, preapproved placement, statement of learning objectives, and completed internship contract. (Same as Soc 391)

**399 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: junior standing and consent of instructor.

**400S Seminar in Contemporary Political Thought (3) (AY)**

Political thought from early 20th century existentialism to contemporary postmodernism, feminism and conservatism. Pre: PolS 300 or 301 and 380 or consent of instructor.

**420S Seminar in Law (3) (AY)**

Research seminar on selected problems and issues in the study of public law. May include problems and issues at the local, state, or international level. Pre: PolS 321 and 380, or consent of instructor.

**430S Seminar in American Politics (3) (AY)**

An in-depth examination of major issues and problems in American government and politics, specifically campaigns and elections, public opin-

ion, the media, and political parties. Pre: PolS 101, 380 or consent of instructor.

**440S Seminar in International Relations (3) (AY)**

Integration and disintegration in contemporary international relations. Major topics include nonstate actors, economic interdependence, North-South relations, nationalism and warfare. Pre: PolS 242 or 340 and PolS 380 or consent of instructor.

**450S Seminar in Comparative Politics (3) (AY)**

Approaches and issues in Comparative Politics. Major theoretical paradigms and substantive topics including political culture, state formation, political parties, ethnic groups, political development and revolution. Pre: PolS 380 and PolS 351 or 353.

**460S Seminar in Administrative Practices (3) (AY)**

An applied research-oriented examination of the managerial practices of government agencies with particular attention to budgeting and financial administration, personnel issues, administrative law, executive leadership, and ethics. Efforts to reform bureaucracy including privatization, cost-benefit analysis, and accountability are analyzed.

**481 Government Internship (CR/NC only) (3-15) (S)**

Juniors and seniors may apply for an internship with the Hawai'i County Council or, in the Spring, with the Hawai'i State Legislature. Legislative interns receive 15 semester hours of credit and a stipend. May be repeated once for credit, but no more than 15 credits of PolS 481 and/or PolS/Soc 391 shall apply to the major. Pre: consent of instructor.

**490 Senior Thesis (3) (S)**

Individual research in problems of special interest. Pre: consent of instructor.

**494 Special Topics in Political Science (1-3) (AY)**

Advanced topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied.

**499 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: senior standing and consent of instructor.

**PSYCHOLOGY (Psy)**

Office: EKH 214A, (808) 974-7460

**Professors:**

Susan G. Brown, Ph.D.

Paul W. Dixon, Ph.D.

Jerry L. Johnson, Ph.D.

**Associate Professors:**

William R. Higa, Ph.D.

Debra J. Vandervoort, Ph.D.

**Assistant Professor:**

Vladimir Skorikov, Ph.D.

**Instructors:**

Cheryl Mae Ramos, Ph.D.

Becky J. Thurston, M.A.

As the study of behavior and experience, Psychology offers many benefits to you, the student. It can satisfy your curiosity about yourself, others, and animals; it offers psychological insights into personal and societal issues; it enables more control over your own life; it promotes critical thinking and an objective attitude; and it fosters respect for human diversity. Students choose Psychology as an academic major to prepare for graduate school, to train for other fields like counseling, or social work, or to gain skills useful for work as a probation officer or drug abuse counselor. In general, psychology is useful for any career that involves working with or relating to people and, because of our service-oriented economy, that means nearly every job in our society.

The academic major is rigorous in the requirement of core method courses, yet flexible in the freedom to choose from among a variety of

courses. The program also provides opportunities for practicum experiences in the community agencies or campus programs, and for research experiences in areas such as adolescent development, women's health, sport psychology, and health and stress. The student Psychology Club arranges for educational activities, sponsors social events, and provides mutual support for its members. In short, the student experience in Psychology can be intellectually exciting and personally satisfying because, in the final analysis, Psychology is about you!

**Major: 35 semester hours**

**Core:** (14 semester hours): 100, 213, 214 and 3 semester hours from 311, 312 or 313

**Block 1** (6 semester hours): 320, 321, 322, 323, 324, 325, 350, 360, 370, 370L, 380, 394A, 428, 428L, 450, 451, 470, 494A

**Block 2** (6 semester hours): 314, 314L, 315, 319, 330, 333, 335, 335L, 385, 394B, 412, 430, 430L, 432, 432L, 494B

**Block 3** (3 semester hours): 340, 341, 345, 346, 399, 499

**Block 4** (3 semester hours): any course at the 300-level, except 399

**Block 5** (3 semester hours): any course at the 400-level, except 499

Any course applied to the Psychology major must be passed with a grade of C- or better, and an overall GPA of 2.0 in the major is also required.

**100 Survey of Psychology (3) (S)**

Principles of human behavior, individual differences, motivation, emotion, perception, learning. This introductory course provides a general survey of the entire field of psychology and serves as the prerequisite for all upper-division psychology courses.

**199 Directed Studies (1-3) (S)**

Permission of instructor and statement of planned reading or research required.

**213 Statistical Techniques (4) (S)**

Frequency distributions; graphic methods; central tendency and variability; correlation and regression; inferential statistics; non-parametric statistics. Pre: two years of high school algebra or equivalent.

**214 Research Methodology (4) (S)**

Methods of scientific observation, nature of experiments, the use of quasi-experimental designs, control group experimental designs, and single-subject experimental designs. Potentials and problems in research and clinical uses of these designs. Ethical considerations involved in conducting research. Pre: Psy 100, 213.

**299 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: consent of instructor.

**311 Behavioral Assessment (3) (AY)**

Principles, concepts, and methods for measuring overt, emotional, and cognitive behavior. Practical applications to self-observation and observation of others in natural situations and under planned behavior changes. Pre: Psy 100, 213, 214.

**312 Evaluation Research (3) (AY)**

The application of research methods in the planning, monitoring and evaluation of social programs. Needs assessment, program monitoring impact assessment and efficiency analysis will be surveyed. Pre: Psy 100, 213, 214.

**313 Testing and Measurements (3) (Y)**

Principles, concepts, and procedures of psychological testing, including construction, validation, interpretation, and use of tests in intellectual and personality assessment. Pre: Psy 100, 213.

**314 Learning and Motivation (3) (AY)**

Major conditions influencing learning and forgetting; role of practice, reward, motivation, drive and emotion; theoretical interpretations of learning and motivation. Pre: Psy 100, 213, 214.

**314L Learning and Motivation Laboratory (1) (IO)**

Laboratory to accompany Psy 314.

**315 Sensation and Perception (3) (Y)**

Psychophysics, vision, audition, taste, smell, theories of perception. Pre: Psy 100, 213, 214.

**319 Experimental Psychology (3) (Y)**

Original experiments with emphasis upon laboratory techniques. Control of variables, apparatus design, statistics in research. Pre: Psy 100, 213, 214.

**320 Developmental Psychology (3) (S)**

Emotional, mental, physical, social development from infancy to adulthood; interest and abilities at different age levels. Pre: Psy 100.

**321 Psychology of Personality (3) (S)**

Scientific study of personality through examination of major theoretical approaches: personality functioning, development, and change; assessment and research strategies; empirical data on central concepts and social-cultural determinants. Pre: Psy 100.

**322 Social Psychology (3) (Y)**

Interpersonal relations, social attitudes; group dynamics; intergroup relations, class and cultural influences. Pre: Psy 100.

**323 Community Psychology (3) (IO)**

Community factors such as urbanization, social service programs, and schools as they affect the psychological well-being of individuals. Social system intervention techniques to better the fit between individuals and environments. Pre: Psy 100.

**324 Abnormal Psychology (3) (S)**

Nature and causes of psychotic, neurotic, intellectual, and other psychological disorders. Definition, assessment, and diagnosis of abnormality. Psychotherapy, chemotherapy, and other treatment alternatives. Prevention, legal, and societal issues. Pre: Psy 100.

**325 Psychology of Women (3) (IO)**

Issues and topics relevant to the psychological development and functioning of women including sex differences in abilities and behavior, achievement motivation, work, sexuality, pregnancy, childbirth and motherhood, mental health and domestic violence. Pre: Psy 100. (Same as WS 325)

**333 Psycholinguistics (3) (Y)**

Theory and method in the investigation of the relationship between language and cognition. Pre: Psy 100. (Same as Ling 333)

**335 Animal Psychology (3) (AY)**

Biological, ecological, social and learned bases of animal behavior based on laboratory and field investigations. Pre: Psy 100, 213, and 214, or consent of instructor.

**335L Animal Psychology Laboratory (1) (AY)**

Laboratory to accompany Psy 335.

**340 Practicum in Psychology: Campus (3) (IO)**

Supervised experience in counseling, instructional, and tutorial programs on the college campus. Pre: Psy 100 and consent of instructor.

**341 Advanced Practicum in Psychology: Campus (3) (IO)**

Continuation of Psy 340; supervised experience in counseling, instructional, and tutorial programs on the college campus. Pre: Psy 100 and consent of instructor.

**345 Practicum in Psychology: Field (3) (S)**

Supervised experience in human service, mental health, and other community agencies in the local community. Pre: Psy 100 and consent of instructor.

**346 Advanced Practicum in Psychology: Field (3) (Y)**

Continuation of Psy 345; supervised experience in human service, mental health, and other community agencies in the local community. Pre: Psy 100 and consent of instructor.

**350 Cognitive Psychology (3) (IO)**

Theories, assumptions, empirical findings, and applications of cognitive psychology. Topics include memory, inference, prediction, and mental imagery. Pre: Psy 100.

**360 Cross-Cultural Psychology (3) (Y)**

Application of psychological methodology and theories to the study of behavior in selected cultures, with a focus on Polynesia. Topics to include child-rearing and socialization, cognition, personality, and social behavior patterns. Pre: Psy 100 and upper division standing.

**370 Sport Psychology (3) (Y)**

Survey of methods and findings in the application of psychological principles to sport. Topics include arousal and anxiety, cognitive processes, team performance, coaching behavior and techniques to maximize sports performance. Pre: Psy 100.

**370L Sport Psychology Laboratory (1) (Y)**

Laboratory to accompany Psy 370.

**377 Counseling Psychology (3) (Y)**

This course covers the various theoretical approaches to counseling, the therapeutic relationship, techniques of counseling, ethical issues, research, diagnosis and assessment, cross-cultural counseling, as well as career, family and couples, and group interventions. Pre: Psy 100.

**380 Health Psychology (3) (Y)**

Psychosocial factors in physical health, illness, and the health care system. Topics include stress and coping, personality and social factors affecting health, adaptation to chronic illness, death and dying, patient-practitioner relationships, the institutional context, and health promotion. Pre: Psy 100.

**385 Women and Health (3) (Y)**

Reproductive health, immune activity, autoimmune disease and mental health in women are covered from physiological, psychological, historical and cross-cultural perspectives. (Same as WS 385) Pre: Psy 100.

**394 Special Topics in Psychology (1-3) (Y)**

Intermediate-level topics chosen by the instructor, with course content varying with each offering: (A) applicable to Block 1 of major requirements, (B) applicable to Block 2 of major requirements. May be repeated for credit, provided that a different topic is studied. Pre: junior standing or consent of instructor.

**399 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: consent of instructor.

**412 Psychology of Individual Differences (3) (IO)**

Theory, measurement, and research on individual and group differences in intelligence, aptitude, achievement, personality, and psychopathology. Pre: Psy 100, 213, 313.

**428 Social Development of Children (3) (AY)**

The socialization process and acquisition of social behavior. Experiences in laboratory and preschool settings with young children. Pre: Psy 100, 213, 214, 320, 322.

**428L Social Development of Children Laboratory (1) (IO)**

Laboratory to accompany Psy 428.

**430 Physiological Psychology (3) (AY)**

Relationship between physiology and behavior. Topics include neuroanatomy, the hormone systems associated with feeding, drinking, reproduction, aggression, and stress, and the neurological and hormonal basis of mental disorders. Pre: Psy 100, 213, 214, or consent of instructor.

**430L Physiological Psychology Laboratory (1) (AY)**

Laboratory to accompany Psy 430.

**432 Psychology of Motivation (3) (Y)**

Theories of arousal and activation, incentive and reinforcement, and behavior suppression. Pre: Psy 100 and consent of instructor.

**432L Psychology of Motivation Lab (1) (IO)**

Laboratory to accompany Psy 432.

**440 History of Psychology (3) (AY)**

Historical origins and development of contemporary psychology. Pre: 12 semester hours in psychology.

**450 Child Behavior Therapy (3) (AY)**

Theory, research, and practice in cognitive behavior therapy applied to child disorders and problems. Treatment applications of reinforcement, extinction, punishment, modeling, self-instruction and other cognitive strategies. Pre: Psy 311, 320.

**451 Adult Behavior Therapy (3) (AY)**

Theory, research, and practice in cognitive behavior therapy applied to adult disorders and problems. Treatment applications of relaxation, exposure and prevention, desensitization, aversion therapy, biofeedback, self-control, imagery and cognitive strategies. Pre: Psy 311, 324.

**470 Clinical Psychology (3) (Y)**

Nature, history, and contemporary state of the profession of clinical psychology. Theories, methods, and findings in assessment, intervention, research, and clinical practice. Multiple roles of the clinical psychologist, ethical and professional issues, standards of care, legal regulation of practice, and the mental health care system. Pre: Psy 324

**494 Special Topics in Psychology (1-3) (Y)**

Advanced-level topic chosen by the instructor, with course content varying with each offering: (A) offering applicable to Block 1 of major requirements, (B) offering applicable to Block 2 of major requirements. May be repeated for credit, provided that a different topic is studied. Pre: senior standing or consent of instructor.

**499 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: consent of instructor.

**RELIGIOUS STUDIES (ReIs)**

**Office:** EKH 231, (808) 974-7482

**Participating Faculty****Professors:**

Hsueh-Li Cheng, Ph.D. Philosophy  
 Barry Curtis, Ph.D. Philosophy  
 Lawrence L. Heintz, Ph.D. Philosophy  
 David R. Miller, Ph.D. English  
 Sandra Wagner-Wright, Ph.D. History

**Associate Professors:**

Douglas Mikkelson, Ph.D. Religious Studies  
 Christopher Reichel, Ph.D. Anthropology

Religious Studies is an interdisciplinary program leading to a B.A. degree under the Liberal Studies Program, administered by the Religious Studies Committee. Its interdisciplinary scope offers students in Hawai'i insights on religious phenomena both within particular historical-cultural traditions and across cultural boundaries. Religious Studies provides an integration of scholarship relevant to the field and in the development of methodologies appropriate to the history of religion to the present. It is an invaluable program in many disciplines including anthropology, art history, business, history, medicine, philosophy, sociology, and comparative studies.

**Major: 33 semester hours**

**Required:**

- A. Methodology (3 hrs.)**  
Rels 300
- B. History of Religions (6 hrs.)**  
Rels 302, 303, 304, 315, 330, 343, 344, 370, 391
- C. Philosophy and Phenomenology of Religion (6 hrs.)**  
Rels 340, 360, 400, 410, 430, 435, 450
- D. Religion in Culture and Society (6 hrs.)**  
Rels 200, 201, 250, 301, 322, 355, 375, 385, 390, 485, 495
- E. 12 hrs. Upper Division Courses listed below:**

**152 Asian Religions (3) (Y)**

Hinduism, Buddhism, Confucianism, Taoism and Shinto.

**153 Western Religions (3) (Y)**

Zoroastrianism, Judaism, Christianity and Islam.

**200 Old Testament/Hebrew Bible (3) (IO)**

The literature of the Old Testament/Hebrew Bible with reference to its historical and cultural background.

**201 New Testament (3) (IO)**

The literature of the New Testament with reference to its historical and cultural background.

**250 Religions of Hawai'i (3) (IO)**

Introduction to local varieties of religion. Course includes field-based component, visiting religious institutions. STUDENTS MUST BE WILLING TO TAKE SUNDAY MORNINGS FOR VISITATIONS.

**300 The Study of Religion (3) (Y)**

The ways in which religion is studied. Definitions, functions, methodologies and relationships to other academic disciplines.

**301 The Bible as Literature (3) (IO)**

Selected books of the Old and New Testaments, examined with respect to their composition, form, and literary merit. Pre: Eng 100/ESL 100 and 200-level literature course or consent of instructor. (Same as Eng 301)

**302 History of Buddhist Philosophy (3) (AY)**

History of Buddhist philosophy and its cultural influence and intellectual development in Asia and Hawaii. Pre: Rels 300 or consent of instructor. (Same as Phil 302)

**303 History of Indian Philosophy (3) (AY)**

The historic Indian schools of thought, Brahmanism, Jain, Carvaka, Buddhist, Samkyha, Yoga, Nayaya, Vaisheskika, Mimamsa, and Vedanta. The main philosophers and thinkers of India including Gandhi, Radhakrishnan, and Tagore. Pre: previous work in philosophy or religious studies is recommended. (Same as Phil 300)

**304 History of Chinese Philosophy (3) (AY)**

History of the Confucian, Taoist, and Buddhist philosophies and their interaction in China. The pivotal thinkers including Mao. Pre: previous work in philosophy or religious studies is recommended. (Same as Phil 301)

**315 East Asian Religions (3) (AY)**

The development of Buddhism, Confucianism, Folk Religions, Shinto and Taoism in China, Japan and Korea. Junior standing or consent of instructor required. (Same as JpSt 315)

**322 Comparative Religion (3) (AY)**

Anthropological approach to comparative religions: comparative structural and functional analysis of religious phenomena. Theories of religion and magic. (Same as Anth 322)

**330 Religion in America (3) (AY)**

A historical and thematic study of the growth of religion in America from the seventeenth century to the present.

**340 Philosophy of Religion (3) (AY)**

Philosophical problems in religious belief and religious knowledge. The existence of God, immortality, the problem of evil. Pre: previous work in philosophy or religious studies. (Same as Phil 340)

**343 Medieval Europe: 200 A.D.-1500 (3) (IO)**

Social intellectual and political history of western Europe from the fall of the Roman Empire to 1500 with emphasis on England and France. (Same as Hist 343)

**344 Early Modern Europe: 1500-1789 (3) (IO)**

Social intellectual and political history of western Europe from 1500-1789 with emphasis on the Iberian peninsula, Italy, England and France. (Same as Hist 344)

**355 Sociology of Religion (3) (IO)**

Sociological analysis of religion in contemporary society. Topics include religious movements, secularization and social change, conversion and faith dynamics, and meaning and belonging functions. Pre: Soc 100 or consent of instructor. (Same as Soc 355)

**360 Existentialism (3) (IO)**

The themes which recur in the works of existential philosophers from the 19th century to the present. Pre: junior standing or consent of instructor. (Same as Phil 360)

**370 Islam (3) (IO)**

A history of the growth and development of Islam from the time of Muhammad to the present. A study of the significance of Islam in its many countries and of its various forms today.

**375 Christianity and the Arts (3) (IO)**

Relationships of the arts to Christian belief and ritual from early Christian era to the present; role of the artist, church and patron. No prerequisites necessary for juniors and seniors; others admitted by special permission. (Same as Art 375)

**385 Religious Arts of East Asia (3) (IO)**

Interrelationships of the arts and religion in various Asian cultures, with emphasis on Buddhism, Hinduism, Confucianism, Taoism and Shinto. No prerequisites necessary for juniors and seniors; others admitted by special permission. (Same as Art 385)

**390 The Culture and Religion of Hawai'i's People (3) (IO)**

Ethnological survey of the religions of Hawai'i from original settlement to the present. Relationship between religion and other aspects of culture. Prehistoric Hawaiian religion, its relationship with Christianity. Immigrant religions, changes, religious revitalization movements, and new introductions.

**391 Women: A Global Perspective (3) (AY)**

Modern and contemporary issues affecting women from African, Asian, Latin American, Islamic and Pacific cultures. History, cross-cultural contact and the impact of modern political, social and economic systems will be emphasized in conjunction with theoretical perspectives. (Same as Hist 391)

**394 Special Topics in Religious Studies (IO)**

Intermediate-level topics chosen by the instructor. Course content will vary and may be repeated for credit, provided that a different topic is studied. Pre: junior standing or consent of instructor.

**399 Directed Studies (1-3) (S)**

Permission of instructor and statement of planned reading or research required. Pre: Junior standing.

**400 Death, Anxiety and Freedom (3) (IO)**

The phenomenological relationships of death, anxiety, guilt and freedom. The existential source of the human development of religion. Pre: Rels 300 or the consent of the instructor.

**410 Comparative Mysticism (3) (IO)**

A comparative study of the religious experience and thought of the important mystics in the history of world civilizations. Pre: Rels 300 or consent of instructor.

**430 Philosophy of Zen (3) (AY)**

Chief philosophical teachings of Zen, its methods and cultural influences. Comparative study of Zen and western thought. Pre: Phil 30 or consent of instructor. (Same as Phil 430 and JpSt 430)

**435 Philosophy of Tao (3) (AY)**

Philosophical ideas of Lao Tzu, Chang Tzu and the Neo Taoist, and their influences upon the lives of the Chinese and Japanese people. Comparative study of Taoist and western philosophy. Pre: Phil 300 or consent of the instructor. (Same as Phil 435)

**450 Mahayana Buddhist Philosophy (3) (AY)**

Important tenets and major schools of Mahayana Buddhist philosophy in India, China, Japan, Tibet and Hawai'i. Comparative study of Mahayana and western philosophy. Pre: Phil 302 or consent of instructor. (Same as JpSt 450, Phil 450)

**485 Art of Islam (3) (IO)**

Major development in the arts and architecture of the Islamic world; relationships with the arts of Europe, Africa and Asia. Pre: Art 270 or consent of instructor. (Same as Art 485)

**494 Special Topics in Religious Studies (1-3) (IO)**

Advanced-level topics chosen by the instructor. Course content will vary and may be repeated for credit, provided that a different topic is studied. Pre: senior standing or consent of instructor.

**495 Seminar in Religion (3) (IO)**

Topics such as contemporary religious thought, critical issues in religion, types of religious experience, etc. Ability to do research in Religious Studies is given critical guidance. Consent of instructor.

**499 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: Senior standing and consent of instructor.

**Note:** Selected courses in other disciplines that concern religion, ethics and morality may be taken for credit toward the Religious Studies major when approved by the Religious Studies Committee.

**SOCIOLOGY (Soc)**

**Office:** EKH 214A, (808) 974-7460

**Associate Professors:**

Sara R. Millman, Ph.D.  
Alton M. Okinaka, Ph.D.

**Assistant Professor:**

Thomas Curtis, Ph.D.

The Sociology program provides students with broad preparation in the basics of scientific sociology. The major and minor options are organized around a core of basic courses in statistics, research methodology, and theory. In addition, the faculty offer topical courses in a variety of subfields including family, ethnicity, religion, education, social psychology, populations, organizations, and aging. The core and topical offerings are complemented by practicum courses in applied sociology and social research in which students apply their newly acquired knowledge in a hands-on fashion in community agencies and/or actual research settings.

The major and minor programs are designed to furnish students with skills, knowledge, and a scientific perspective useful in a large number of diverse occupations—especially those pertaining to the human services, social scientific research, planning, law, business, and public administration. The major program also provides excellent preparation for graduate work in sociology, social work, and public health as well as the other

social sciences. A comprehensive advising program is available to assist students match their personal interests and career objectives with the necessary courses and practical experiences.

**Major: 35 semester hours**

**Required:** Soc 100, 200, 280, 280L, 380, 390; a minimum of nine semester hours at the 400-level; twelve additional semester hours. Soc 240 may substitute for Soc 100 in the major or as the prerequisite for upper-division Sociology courses, and one 400-level PoLS course may be used to fulfill the 400-level requirement when approved by the major advisor.

**Minor: 20 semester hours in Sociology**

**Required:** Soc 100, 200, 280, 280L, 380, 390 and six additional semester hours in Sociology at the upper-division level.

**100 Principles of Sociology (3) (S)**

An introduction to the theories, scientific methods and empirical findings of contemporary sociology.

**200 Career Opportunities in Sociology (1) (Y)**

A forum for the presentation of career opportunities for Sociology majors and minors. The course features speakers, and the development of practical professional skills, including writing a resume. Offered on a CR/NC basis only. Required for Sociology majors and minors. Pre: Soc 100, senior standing or consent of instructor. (Formerly Soc 490)

**240 Social Psychology (3) (AY)**

An introduction to how sociologists view the relationship between social institutions, social groups and individual actions.

**260 Social Problems (3) (IO)**

An introduction to the study of social problems in contemporary society, including their nature, sociological causes and possible solutions. Course may focus on a single social problem.

**280 Statistical Reasoning in Social Inquiry (3) (Y)**

An introduction to basic descriptive, correlational, and inferential statistics used in the social sciences and education. Must be taken concurrently with Soc 280L.

**280L Laboratory in Statistical Reasoning (1)**

An introduction to the techniques and usage of statistical applications involving computation and interpretation of statistics.

**300 Family in World Perspective (3) (Y)**

A comparative analysis of family and marriage patterns, mate selection, parent-child interaction, divorce rates, socialization of gender roles, legal sanctions, trends in organization and function. Pre: Soc 100 or consent of instructor.

**301 Introduction to Social Work (3) (Y)**

The sociological analysis of social welfare institutions and their relationship to meeting human needs and solving social problems. Course designed for students intending careers in the helping professions. Pre: Soc 100 or consent of instructor.

**305 Organizational Theory and Analysis (3) (AY)**

Contemporary theories and techniques used in the analysis of organizations. Designed for students intending careers in administration or the human services. Pre: junior standing or consent of instructor. (Same as PoLS 305)

**310 Race and Ethnic Relations (3) (AY)**

Sociological analysis of the patterns of intergroup relations. Topics include the meaning of race, ethnicity, prejudice and discrimination, and the interactive strategies used by various groups. Emphasis on ethnic processes on Hawai'i and the Pacific region. Pre: Soc 100 or consent of instructor.

**320 Social Stratification (3) (AY)**

The causes and consequences of institutionalized social inequality. Pre: Soc 100 or consent of instructor.

**323 Business and Society (3) (Y)**

The impact of business on society and the impact of societal environment on business operations and decision making. Pre: Soc 100 or consent of instructor. (Same as Mgt 423)

**324 Crime and Delinquency (3) (IO)**

Crime and delinquency; types of adult and juvenile offenders; theories of crime and delinquency; police, courts, prisons, probation, and parole in relation to criminal and delinquent behavior. Pre: Soc 100 or consent of instructor. (Same as PolS 324)

**340 Socialization and Identity (3) (AY)**

The process by which an individual becomes a functioning member of society. Pre: Soc 100 or consent of instructor.

**342 Sociology of Human Aging (3) (AY)**

Aging as a social phenomenon, including social impact of a growing elderly population, and emerging social patterns among the elderly. Emphasis on the interplay of biological, psychological, sociological and cultural factors of human aging. Pre: Soc 100 or consent of instructor.

**345 Human Populations (3) (AY)**

Introduction to population theories and sociological research on population distribution, composition, and change within global and local contexts. Pre: Soc 100 or consent of instructor.

**352 Sociology of Education (3) (AY)**

Formal education as an aspect of socialization. Emphasis is on the American system from an historical and comparative perspective. Pre: Soc 100 or consent of instructor.

**355 Sociology of Religion (3) (IO)**

A comparative analysis of religion. Topics include religious movements, secularization and social change, conversion and faith dynamics, and meaning and belonging functions. Case studies drawn from different societies and historical periods. Pre: Soc 100 or consent of instructor. (Same as Rels 355)

**380 Methods of Research (3) (Y)**

A survey of the logic, purposes, techniques, terminology, and issues of social research methodology. Pre: Soc 100, 280 and 280L or consent of instructor.

**390 Sociological Theory (3) (Y)**

A critical examination of the theoretical foundations of contemporary sociological theories. Beginning with Marx, Weber, Durkheim, and Simmel, examines contemporary examples of social theory, including post-structuralism, critical theory, hermeneutics, and phenomenology. Pre: Soc 100 or consent of instructor.

**391 Internship (3-12) (S)**

Application of knowledge and skills in a public, private, or government agency/setting. May be taken for a total of 12 credits, only six of which can apply to the Sociology major or three to the minor, and a total of 15 credits of PolS/Soc 391 and PolS 481 may be applied to the PolS major. Pre: consent of instructor, preapproved placement, statement of learning objectives, and completed internship contract. (Same as PolS 391.)

**394 Special Topics in Sociology (1-3)**

Topics chosen by the instructor. Course content will vary and may be repeated for credit, provided that a different topic is studied. Pre: Soc 100, junior standing, or consent of instructor.

**399 Directed Studies (1-3)**

Statement of planned reading or research required. Pre: Soc 100, junior standing, or consent of instructor.

**400 Seminar in Social Psychology (3)**

The relationship between social pressures/structure and the individual. Emphasis upon current research and theory in the area. Pre: Soc 100 or Soc 240 or consent of instructor.

**405 Seminar in Social Organization (3)**

Social organization in all its forms, dynamics, and structures. While appealing to an historical and comparative perspective, primary attention will be directed to contemporary forms of social organization with an emphasis upon current research and theory in the area. Pre: Soc 100 or consent of instructor.

**420 Seminar in Social Institutions (3)**

Institutions in contemporary society, with focus upon the processes and structures of modern institutions such as the polity, economy, health care, and law. Emphasis upon current research and theory in the area of specific institutions examined. Pre: Soc 100 or consent of instructor.

**430 Seminar in Social Change (3)**

Change in human societies from a comparative and historical perspective. Topics covered include modernization, development, tradition, and secularization. Emphasis upon current research and theory in the area. Pre: Soc 100 or consent of instructor.

**480 Practicum in Social Research (3)**

Direct involvement in all facets of the research process. Students have the option of working on their own projects or on projects initiated by the faculty. May be counted only once toward the required 35 semester hours of the major, but may be repeated once for upper division credit. Pre: Soc 280 and 380 or consent of instructor.

**494 Special Topics in Sociology (1-3)**

Advanced topics chosen by the instructor. The course content will vary and may be repeated for credit, provided that a different topic is studied. Pre: Soc 100, senior standing, or consent of instructor.

**UNIVERSITY (Univ)****101 Freshman Experience Seminar (3)**

Designed to assist first year students in knowing UH Hilo, its programs, services, and place in the tradition of higher education. Students will learn about their role, the skills they will need, expectations of others, career options, and the student's contributions to this multicultural setting. Admission is generally limited to classified freshman students.

**WOMEN'S STUDIES (WS)**

**Office:** EKH 214, (808) 974-7460

**Facilitator:**

Susan Brown, Ph.D.

**Steering Committee:**

Sue Aki, Ph.D.

Catherine Becker, Ph.D.

Jerry Calton, Ph.D.

Teresa Conefrey, Ph.D.

Audrey Furukawa, M.Ed.

Sonia Juvik, Ph.D.

April Komenaka, Ph.D.

Sherryll Mleynek, Ph.D.

Regina Titunik, Ph.D.

Sandra Wagner-Wright, Ph.D.

Jennifer Wheat, Ph.D.

The interdisciplinary Women's Studies Certificate program is an adjunct to a student's academic major. Students will explore in-depth gender-based issues from an historical, creative and multi-cultural perspective.

**Certificate Requirements: 18 semester hours**

1. **Required courses:** WS 151, 495
2. **Electives:** 12 semester hours with a maximum of 9 credits from the same discipline. Students must have 15 upper division credits. The following courses are presently approved for the WS certificate: Anth 320, Hist 319, 360, 391, Eng 355, Psy 325, 335 & 335L, Soc 300, and special topics approved by the women's studies steering committee. Other appropriate courses will be reviewed and will be listed under Women's Studies in the class schedule. Students may also take up to 6 credits of discipline-based directed study from a participating WS faculty member.

**151 Introduction to Women's Studies (3) (Y)**

An interdisciplinary survey of women in contemporary society. Topics include issues in history, biology, psychology, education, communication, feminism, ethnicity and gender which impact on women's lives in modern culture.

**299 Directed Studies (1-3) (S)**

Topics will be chosen by the instructor. The course content will vary. Course may be repeated for credit, provided that a different topic is studied. Pre: consent of instructor.

**319 European Women's History (3) (AY)**

Study of European women from pre-history to the 20<sup>th</sup> century with emphasis on women's social and cultural roles in western history. Modern feminist theories will also be studied. Pre: Hist 151, 152 or consent of instructor. (Same as Hist 319)

**320 Cross-Cultural Study of Women (3) (AY)**

Comparative analysis of women's roles and women's lives in different societies. Topics include women's status, life stages, gender roles, images of women and power. (Same as Anth 320)

**324 Culture, Sex and Gender (3) (AY)**

A cross-cultural examination of the development of gender systems and gender roles. Consideration of sex roles and activities as part of the larger gender system. Pre: Anth 100 or consent of instructor. (Same as Anth 324)

**325 Psychology of Women (3) (IO)**

Issues and topics relevant to the psychological development and functioning of women including sex differences in abilities and behavior, achievement motivation, work, sexuality, pregnancy, childbirth and motherhood, mental health and domestic violence. Pre: Psy 100. (Same as Psy 325)

**341 Women and War (3) (Y)**

An examination of warfare and women's involvement in this activity. Attention given to military history, the organizational requirements of warfare, the effects of war on women and the changing role of women in the armed forces.

**355 Women in Modern Literature and Film (3) (AY)**

Literature and film by and about women from 1900 to the present. Feminist literary theory. Pre: Eng/ESL 100 and 200-level literature course or college level Women's Studies courses or consent of instructor. (Same as Eng 355)

**356 Language and Gender (3) (Y)**

Examination of the articulation of language and gender by way of analysis of research on talk among friends, in the work place, and in families. Pre: Eng 100/ESL 100 or consent of instructor. (Same as Eng 356)

**360 American Women's History (3) (AY)**

Study of American women from the 17<sup>th</sup> to the 20<sup>th</sup> centuries. Special emphasis will be on women's social and cultural roles. Current theories of feminization and current women's issues will also be studied. Pre: Hist 151, 152 or consent of instructor. (Same as Hist 360)

**385 Women and Health (3) (AY)**

Reproductive health, immune activity, autoimmune disease, and mental health in women are covered from physiological, psychological, historical and cross-cultural perspectives. (Same as Psy 385) Pre: Psy 100.

**391 Women: A Global Perspective (3) (AY)**

Modern and contemporary issues affecting women from African, Asian, Latin American, Islamic & Pacific cultures. History, cross-cultural contact and the impact of modern political, social and economic systems will be emphasized in conjunction with theoretical perspectives. (Same as Hist 391)

**393 Normality, Abnormality, and Society (3)**

Philosophical study of how human diversity interacts with social norms. Topics include health and illness, disability, gender and sexual orientation. Perspectives from biology and the social sciences are included in a study of how beliefs about normality vary between cultures, change through time and affect human relations. Pre: Previous work in Philosophy. (Same as Phil 393.)

**394 Special Topics (3) (Y)**

Advanced topics will be chosen by the instructor. The course content will vary. Course may be repeated for credit, provided that a different topic is studied. Pre: consent of instructor.

**399 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: consent of instructor.

**494 Special Topics (3) (Y)**

Advanced topics will be chosen by the instructor. The course content will vary. Course may be repeated for credit, provided that a different topic is studied. Pre: consent of instructor.

**495 Women's Studies Seminar (3) (AY)**

A reading and research seminar under the supervision of the Women's Studies faculty aimed at demonstrating competence in gender issues and integrating gender research from multiple disciplines. Pre: At least one upper-division Women's Studies course or consent of instructor. May be cross-listed with the instructor's department.

**499 Directed Studies (1-3) (S)**

Statement of planned reading or research required. Pre: consent of instructor.



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# KA HAKA 'ULA O KE'ELIKŌLANI COLLEGE OF HAWAIIAN LANGUAGE

FOR MORE INFORMATION, PLEASE CONTACT:

**Hawaiian Studies Division**  
200 W. Kāwili Street  
Hilo, Hawai'i 96720-4091  
ph. 808-974-7454 or 974-7342  
fx. 808-974-7736

**Hale Kuamo'o**  
200 W. Kāwili Street  
Hilo, Hawai'i 96720-4091  
ph. 808-974-7339  
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## Vision

*'O ka 'Ōlelo ke Kā'a o ka Maui*—Language is the fiber that binds us to our cultural identity.

Established in 1997, UH Hilo's new College of Hawaiian Language, Ka Haka 'Ula O Ke'elikōlani was named in honor of Ruth Ke'elikōlani Keanolani Kanāhoahoa, the 19th century high chiefess known for her strong advocacy of Hawaiian language and culture.

Building upon the vast repository of traditional knowledge left by our elders before us, Ka Haka 'Ula O Ke'elikōlani faculty, staff, and students seek to realize its vision statement for the benefit of all of Hawai'i's people.

## Hale Kuamo'o

The Hale Kuamo'o Center for Hawaiian Language and Culture Through the Medium of Hawaiian is the support and research division of Ka Haka 'Ula O Ke'elikōlani. The Center encourages and supports the expansion of the Hawaiian language as a medium of communication in education, business, government and other contexts of social life in the public and private sectors of Hawai'i and beyond. The Center's programs include:

### Curriculum Development, Media and Telecommunications Services

- Development, production and distribution of instructional materials for implementation in Hawaiian medium schools
- Hawaiian language research and development
- Media and Telecommunications

### Hawaiian Medium Inservice

- Leo Ola (Summer Institute)
- Kako'o Kula (School Site Support)
- Kako'o Kaiapuni Hawai'i

### Hawaiian Medium Laboratory Schools

Legislation establishing Ka Haka 'Ula O Ke'elikōlani provides for laboratory school programs to include Ke Kula 'O Nāwahīkalanī 'Ōpu'u (on Hawai'i Island), Ke Kula 'O Samuel M. Kamakau (on O'ahu), Ke Kula Nī'ihau O Kekaha (on Kaua'i), and other sites as appropriate. All laboratory programs reflect *Ke Kumu Honua Maui Ola Hawai'i*, the Hawaiian educational philosophy which asserts Hawaiian cultural identity as the basis of education and participation in contemporary life. Hawaiian is the medium of instruction and communication among students, staff and administration at the laboratory schools, which focus on college preparation, environmental and health studies, sustainable agriculture and teacher training.

Extension of the laboratory school program to other sites is facilitated by a consortium between the College and the 'Aha Pūnana Leo.

## Outreach

Outreach currently includes work with the Hawaiian community both locally and abroad, as well as with other native peoples, especially those of North America and the Pacific. Hale Kuamo'o is also the Secretariat for the Polynesian Languages Forum which unites the developing indigenous languages of 13 Polynesian governments.

## Hawaiian Studies Division

The academic division of Ka Haka 'Ula O Ke'elikōlani emphasizes language acquisition, linguistics, traditional culture and education in a Hawaiian medium environment. The Hawaiian Studies Division currently oversees:

### The Undergraduate Program

- the B.A. in Hawaiian Studies
- the Minor in Hawaiian Studies
- the Certificate in Hawaiian Language
- the Certificate in Basic Hawaiian Culture

**The Kahuawaiola Hawaiian Medium Teacher Education Program**  
**The M.A. in Hawaiian Language and Literature**

## Bachelor of Arts in Hawaiian Studies

### The Atmosphere

Students in the Hawaiian Studies Program come from several islands and play a key part in its direction. The classroom atmosphere stresses mastery of Hawaiian culture and its active use, particularly the Hawaiian language. All upper division Hawaiian culture, linguistics and music courses are taught in Hawaiian. The program also emphasizes the importance of contact with the community. Toward this end, the program requires majors to take at least one course taught by a community expert and to complete the exiting seminar class which focuses on community involvement. Permeating Hawaiian Studies in Hilo is a sense of responsibility for Hawaiian culture, a commitment which is shared by faculty and students alike. Those interested and concerned with Hawai'i's future will find Hilo to be a stimulating as well as enjoyable place to live and study.

### The Future

Hawaiian Studies is a new field which is already playing an important role in the direction of life in Hawai'i. In response to amendments to the Hawai'i State Constitution, public schools and government departments are presently developing programs to promote Hawaiian culture, language and history for the general public, in addition to implementing new programs for people of Hawaiian ancestry.

There are jobs in the ministry, law, land surveying, the entertainment industry, education, agriculture, journalism, the media, fish and game management and social services that require a background in various aspects of Hawaiian Studies. In the private sector, individuals are establishing businesses in food and beverage, fashion, publishing and telecommunications with a Hawaiian Studies foundation. There are many exciting opportunities now and in the future for those dedicated to the goal of Hawaiian Studies: meeting the rapidly increasing demand for Hawaiian language, knowledge, skills and expertise in all areas of social, economic and political life in Hawai'i.

Currently, the area of greatest expansion is found in schools taught entirely through Hawaiian. These Hawaiian medium/immersion

programs are conducted by the Pūnana Leo and the State of Hawai'i Department of Education. The great need for teachers and materials for these programs provides fine employment opportunities for those committed to Hawaiian cultural continuity.

The Hale Kuamo'o Center for Hawaiian Language and Culture Through the Medium of Hawaiian provides special support services for Hawaiian education programs. The creation and expansion of this center, together with the Hawaiian language and culture efforts throughout the UH system, have created a demand for new faculty and staff with Hawaiian Studies credentials.

Clearly, opportunities in the field of Hawaiian Studies are both broad and limitless, because Hawaiian Studies is part of a major change in modern Hawaiian society. Today, people are actively cultivating that which is Hawaiian, not only on the job, but at home and in the community as well. Hawaiian Studies will help you to fit into the Hawai'i of the future. And because this change of attitude is not limited to Hawai'i, but is found throughout the Pacific and the world, Hawaiian Studies will help you better to relate to others on a global level. Hawaiian Studies is a field with a bright future!

## The Program

The Hawaiian Studies Program is one of the most innovative baccalaureate programs at the University of Hawai'i at Hilo, offering two options for study, each focused on a Hawaiian-based cultural continuum:

1. The continued development of Hawaiian culture within a Hawaiian language context; and
2. The monitoring of the direction of Hawaiian culture.

This program basically serves four groups of students:

1. Those taking courses for their own interest and to fulfill University requirements;
2. Those minoring in Hawaiian Studies;
3. Those pursuing certificates in Hawaiian language or culture; and
4. Those majoring in Hawaiian Studies.

In addition, our program provides a unique educational opportunity for students interested in culture, economics, politics, sociology, linguistics, music, anthropology, biology, geography, history and dance.

Majors must fulfill 43 semester hours and may choose to emphasize either of the two primary options of the program. The minor requires 23 semester hours. Certificates require from 24 to 26 semester hours. All semester hours must be completed with a grade of "C" or better.

## The Major

### Option I (Continuing the Culture)

**Required:** Haw 303-304, 403-404; Haws 205, 305, 497; Haws 111 or 211 or 213

**Electives:** 12 semester hrs. selected from either (A) or (B), plus 6 semester hrs. taken from any 300- or 400-level Haw or Haws course.

(A) Language Emphasis: Haw 453, 454, 455; Haws 361, 462

(B) Performing Arts Emphasis: Haws 361, 462, 471, 472, 473, 474

### Option II (Monitoring the Culture)

**Required:** Haw 303-304, 403-404; Haws 111, 205, 305, 497

**Electives:** 12 semester hrs. selected from both of the following, at least 9 of which must be in courses numbered 300 and above, plus 6 semester hrs. taken from any 300- or 400-level Haw or Haws course.

(A) Social Environment: Anth 357, 385, 386, 387, 390; Hist 374; Econ 330; Pols 231, 494

(B) Natural Setting: Biol 156, Geog 120, 332; Geol 205; Haws 211, 213, 361

## The Minor

**Required:** Haw 201-202, or 207; Haws 111 or 211 or 213

**Electives:** 12 semester hrs. selected from any 300- or 400-level requirement or elective of Options I or II above.

## The Certificate in Hawaiian Language

**Required:** Haw 303-304 (8 semester hours) - requires background in elementary and intermediate Hawaiian.

**Electives:** 16 semester hours taken from: Haw 403-404, 453, 454, 455, 494, 499; Haws 305, 361, 462, 471, 472, 473, 474, 494, 497, 499; (Note: All Haw- and Haws-related elective courses are conducted in Hawaiian); Ling 102, 121, 351.

## The Certificate in Basic Hawaiian Culture

**Required:** Haw 101-102 (8 semester hours) or Haw 107.

**Core Electives:** 9 semester hours taken from: Haws 111, 176, 211, 213.

**Related Electives:** 9 semester hours taken from: Anth 385, 386, 387, 390; Biol 156; Econ 330; Geog 120, 332; Geol 205; Haw 100, 201-202/207, 299; Haws 205; Hist 374; or a fourth course from the core elective list.

**CONDITIONS:** No more than two courses may be counted in the fulfillment of all three of the following: (1) Hawaiian Studies minor, (2) the Certificate in Hawaiian Language, (3) the Certificate in Basic Hawaiian Culture. No more than three courses may be counted in the fulfillment of two of the above.

## Kahuawaiola Hawaiian Medium Teacher Education Program

The Kahuawaiola Hawaiian Medium Teacher Education Program is a three-semester post-baccalaureate program provided through the medium of Hawaiian in combination with a strong community-based emphasis. Designed to prepare "Maui Ola Hawai'i" teachers of the highest quality, Kahuawaiola will be of special interest to those planning to teach in Hawaiian medium schools, and schools serving students with a strong Hawaiian cultural background.

All interested persons with a B.A. or B.S. degree from an accredited college or university with an approved major requiring a minimum of 120 credits, 45 of which are at the 300 level or above, may be accepted if they meet the Hawaiian language and culture course work requirements of the program. Kahua waiola is delivered through a Hawaiian cultural framework of four *pale*, or phases, based on the Hawaiian concepts *Ma Ka hana ka 'ike*: Knowledge comes from direct experience, and *Ma ua ka hana, ma hope ka wala'au*: Direct experience comes first, discussion comes second.

The first pale, *Wana'ao*, requires that students accepted into the program have completed at least 50 hours of teaching through the medium of Hawaiian or 75 hours in Hawaiian medium education curriculum development.

The second pale, *Kahikole*, focuses on the foundations of Hawaiian medium education during a summer session. Students are introduced to a general framework for Hawaiian medium education and learn the vocabulary and methods necessary to teach in the Humanities, Social Sciences, and Natural Sciences. Students are taught how to integrate Hawaiian culture including sports, poetry, drama, dance and music into all phases of the curriculum. Students also learn teaching strategies, lesson planning, assessment, classroom management and other skills necessary for practical application in the third pale.

The third pale, *Kahikū*, takes place in Hawaiian medium programs including Nāwahīkōkalanī'ōpu'u Laboratory School and other sites as appropriate. Students teach classes with assistance from on-site

cooperating teachers and a university field service supervisor. During this pale, a discussion seminar is held on Saturdays (via HITS) to allow students to work in rural, neighbor island schools where there are teacher shortages. This pale focuses on developing teaching skills but includes discussion of broader issues as appropriate.

The fourth pale, *Kaulolo*, focuses on mastery of teaching skills and professionalism through extended teaching experiences and seminar support. The seminar focuses on hypothetical situations and long range goals rather than practical day-to-day situations, although these are also covered when appropriate. In this pale, students acquire the higher level planning and conceptualization skills necessary for the growth of Hawaiian medium education.

## Program Requirements

Kahuawaiola is a program provided, as mandated by law, through the medium of the State's official Hawaiian language and community-based culture at the College of Hawaiian Language. Core course work for the program is currently offered during the summer only. During the fall and spring semesters, students are assigned to Hawaiian medium classrooms assisted by on-site cooperating teachers and a university field service supervisor, and complete course work via HITS on weekends.

### Entrance Requirements

1. Completion of the application packet including the Kahuawaiola Admissions Application, Statement of Interest, Work Experience Verification Form, three letters of recommendation, original college transcripts, UH Hilo Admissions Application, Tuition & Fee Slip, Residency Declaration Form and Praxis 1 exam scores.
2. B.A. or B.S. degree from an accredited college or university
3. Major approved by the Hawaiian Studies Division.
4. Minimum GPA of 2.75 in both the major and cumulative record.
5. Four years of college level Hawaiian language with a minimum of 2.75 for the third and fourth years, or permission from the Hawaiian Studies Division based on an evaluation of fluency
6. Completion of one of the following: Haws 111, 211; 213; or permission from the Hawaiian Studies Division based on an evaluation of Hawaiian cultural knowledge and skills.
7. Completion of one of the following: Haws 205, 471, 472, 473, 474; or permission from the Hawaiian Studies Division based on an evaluation of Hawaiian cultural knowledge and skills
8. 50 hours of either paid or volunteer teaching experience through the medium of Hawaiian, or 75 hours of approved paid or volunteer experience in Hawaiian medium curriculum development
9. Interview with Kahuawaiola faculty

Note: The Program has a policy of flexibility in assisting transfer and other students with unusual circumstances to address prerequisites, including completion of the undergraduate degree. Faculty will address special circumstances on a case-by-case basis.

### Graduation Requirements

Graduation from the Program is based on the successful completion of the following requirements:

1. 36 semester hours from the following: Haw 600; Haws 351, 352, 353, 354, 355, 451, 452, 453, 454.
2. Minimum grade of 3.0 in all teacher training courses requiring grades.
3. Completion of all other required Praxis exams.

## Master of Arts in Hawaiian Language and Literature

The M.A. in Hawaiian Language and Literature is UH Hilo's first graduate program and the first focusing on a Native American language in the United States. The program draws upon the tremendous wealth of Hawaiian literary resources from the 19th and 20th centuries--regarded by some scholars as the largest such repository of any indigenous people in the world.

The M.A. seeks to produce graduates prepared to meet the increasing demands for in-depth knowledge of Hawaiian language and literature in all sectors of contemporary life in Hawai'i. With government promotion of the language mandated by the Hawai'i State Constitution, Hawaiian is the language area of greatest need in Hawai'i's public schools. The only language other than English used as a full medium of instruction in the public schools, Hawaiian is presently the medium through which a full academic curriculum is delivered to nearly 2,000 children on all islands except Lāna'i. In addition, Hawaiian language-learning programs throughout the University of Hawai'i system and in high schools enjoy large enrollments and, by constitutional mandate, are a part of the education of all elementary public school children. The substance, stability and growth of such programs will depend heavily upon individuals with graduate level training in Hawaiian language and literature.

### Entrance Requirements

1. B.A. or B.S. degree from an accredited college or university;
2. 30 upper division credits in Haw or Haws courses with no grade lower than a "B" and a minimum 3.5 average;
3. Three letters of recommendation;
4. Successful completion of an examination in Hawaiian language and culture;
5. Interview by Hawaiian Studies faculty; and
6. GRE scores.

### Graduation Requirements \*

#### Plan A

Complete 5 of 5 requirements for a total of 33 semester hours.

1. Complete 5 courses totaling 15 hours: Haw 630, 631, 654, 700; Haws 663.
2. Earn 3 hours from Haws 661, 662
3. Earn 3 hours from: Haws 664, 665
4. Complete 1 of 2 options -
  - A. Earn 3 hours in: Haw 690
  - B. Earn 3 hours in: Haws 699V. Course must be approved by program chair.
5. Earn 9 hours in upper-division and graduate Hawaiian language or Hawaiian Studies courses: Haw 300-499V; Haw 600-700, Haws 300-499V, Haws 600-699V (except Haw 600, Haws 451-454).

#### Plan B

Complete 3 of 3 requirements for a total of 36 semester hours.

1. Complete 8 courses totaling 24 hours: Haw 630, 631, 654; Haws 661, 662, 663, 664, 665.
2. Complete 1 of 2 options -
  - A. Earn 3 hours in: Haw 690.
  - B. Earn 3 hours in: Haws 699V. Course must be approved by program chair.
3. Earn 9 hours in upper division and graduate Hawaiian language or Hawaiian Studies courses: Haw 300-499V; Haw 600-700; Haws 300-499V, Haws 600-699V (except Haw 600, Haws 451-454)

\* All M.A. candidates must complete either Plan A or Plan B with no grade lower than a "B." Plan B is allowed only with permission from all Hawaiian Language and Literature graduate faculty. Students in both plans must pass an exit examination in Hawaiian language and culture.

# KA HAKA 'ULA O KE'ELIKŌLANI COLLEGE OF HAWAIIAN LANGUAGE COURSES

## Hawaiian Studies Division

Hale Kuamo'o Center for Hawaiian Language and Culture Through  
the Medium of Hawaiian

### Professors:

Kalena Silva, Ph.D.\*

William H. Wilson, Ph.D.\*

### Associate Professors:

Haunani Bernardino, M.Ed.\*

Kaunoe Kamanā, M.A.\*

### Assistant Professor:

Larry L. Kimura, B.A.

### Educational Specialist:

Keiki Kawai'ae'a, M.Ed. \*

### \* Hawaiian Studies Graduate Faculty

### Other Graduate Faculty:

Daniel E. Brown, Ph.D., Anthropology

James O. Juvik, Ph.D., Geography and Environmental Studies

Charles Langlas, Ph.D., Anthropology

Suzanne Romaine, Ph.D., Linguistics

**Course listing codes:** (S) = every semester  
(Y) = yearly  
(AY) = alternate years  
(IO) = infrequently offered

## K-Alpha Initial Courses

Built upon a core commitment to Hawaiian language and culture education, Ka Haka 'Ula O Ke'elikōlani provides courses that also address the broader world of indigenous peoples and the use of Hawaiian as an official medium of education for the State of Hawai'i. Courses other than Hawaiian language (Haw) and Hawaiian Studies (Haws) are marked with an initial K (for Ke'elikōlani) followed by an appropriate alpha, e.g. IND (Indigenous Studies), ANT (Anthropology), etc. An H (Hawaiian) following a course number indicates that it is taught through Hawaiian.

### KInd 240 Culture Revitalization Movements (3) (Y)

Efforts throughout the world to preserve the linguistic and cultural distinctiveness of indigenous and regional minorities. The interrelationship of such efforts with political, cultural, educational, and economic structures. Focus on comparison of other movements with that of Hawai'i. (When followed by H, taught through Hawaiian.)

### KAnt 386H Hawaiian Culture Before 1819 (3) (Y)

Hawaiian culture before the 1819 overthrow of the native Hawaiian religion; fishing and farming, political-economic organization and religion. Emphasis on early Hawaiian writers: Malo, Kamakau and 'Ōi. Conducted in Hawaiian. Pre: Anth 100 or Haws 111 or consent of instructor. See Anth 386.

## Hawaiian Language (Haw)

### Haw 100 Hawaiian Language in Action (2) (S)

A beginning immersion experience in Hawaiian focusing on the spoken use of the language. A) usage referring to locations and relationships, E) usage referring to processes and actors, I) other. (May be repeated for credit if subletters are different.) Meets three times weekly. No prerequisites.

### Haw 101-102 Elementary Hawaiian (4-4) Yr. (Y)

Development of listening, speaking, reading and writing skills. Taught within

the context of the contemporary culture of the Hawaiian people. Language laboratory required.

### Haw 107 Accelerated Elementary Hawaiian (8) (Y)

Contents of 101-102 covered in one semester. Meets 2 hours daily, Monday through Friday. Language laboratory required. Pre: consent of instructor.

### Haw 194 Special Introductory Topics in Hawaiian (1-4)

Topics chosen by the instructor. Course content will vary. May be repeated for credit, provided that a different topic is studied. Pre: consent of instructor.

### Haw 199V Directed Studies (1-3)

Permission of instructor and statement of planned reading or research required.

### Haw 201-202 Intermediate Hawaiian (4-4) Yr. (Y)

Continuation of 102. Conducted in Hawaiian. Language laboratory required. Pre: Haw 102 or equivalent.

### Haw 207 Accelerated Intermediate Hawaiian (8) (Y)

Contents of 201-202 covered in one semester. Meets 2 hours daily, Monday through Friday. Language laboratory required. Pre: 102 or 107.

### Haw 294 Special Intermediate Topics in Hawaiian (1-4) (AY)

Topics chosen by instructor. Course content will vary. May be repeated for credit, provided that a different topic is studied. Pre: Hawaiian course at the introductory level and consent of instructor.

### Haw 299V Directed Studies (1-3)

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing.

### Haw 303-304 Third-Level Hawaiian (4-4) Yr. (Y)

Continuation of 202. Advanced structures, expressions and patterns. Conducted in Hawaiian. Language laboratory required. Pre: C or better in Haw 202 or 207, or permission from the instructor.

### Haw 399V Directed Studies (1-3)

Permission of instructor and statement of planned reading or research required. Pre: junior standing.

### Haw 403-404 Fourth-Level Hawaiian (4-4) Yr. (Y)

Continuation of 304. Advanced structures, expressions, and patterns. Conducted in Hawaiian. Language laboratory required. Pre: C or better in 304 or permission from the instructor.

### Haw 425 Translation into Hawaiian (3)

This course trains students to translate from English into Hawaiian. A wide range of materials is covered, from school texts to news items and legal material. Pre: Haw 404, which, with permission, may be taken concurrently.

### Haw 453 Hawaiian Phonetics and Phonology (3) (AY)

Sound system of the Hawaiian language. Stylistic and regional variation. Interaction of the Hawaiian sound system with the sound systems of other languages, especially that of English. Conducted in Hawaiian. Pre: Haw 202 or equivalent, which, with permission, may be taken concurrently, or equivalent. Ling 102, Ling 211, Ling 311 recommended. (Same as Ling 453)

### Haw 454 Hawaiian Morphology and Syntax (3) (AY)

Grammatical system of the Hawaiian language. Conducted in Hawaiian. Pre: Haw 202 or equivalent, which, with permission, may be taken concurrently, or equivalent; Ling 102 recommended. (Same as Ling 454)

### Haw 455 Hawaiian: A Polynesian Language (3) (AY)

The similarities and differences among Polynesian languages and the recon-

struction of their common ancestor language. The development of Hawaiian from that common ancestor. Conducted in Hawaiian. Pre: Haw 303, which may be taken concurrently, and Haw 453. Haw 454, Ling 102, Ling 371 recommended. (Same as Ling 455)

#### **Haw 494 Special Advanced Topics in Hawaiian (3) (AY)**

Topics chosen by instructor. Course content will vary. May be repeated for credit, provided that a different topic is studied. Conducted in Hawaiian. Pre: Hawaiian language course at the intermediate level and consent of instructor.

#### **Haw 499V Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required. Pre: senior standing.

#### **Haw 600 Base-Level Fluency for Hawaiian Medium Education (1)**

A review and strengthening of Hawaiian language fluency skills with focus on their applicability to Hawaiian medium education. Must be taken credit/no credit. Conducted in Hawaiian. Pre: six semester hrs. of college fourth-level Hawaiian and permission from the Division.

#### **Haw 630 Research Methods in Hawaiian Language (3)**

Seminar in which students explore and choose thesis topics. Pre: Concurrent enrollment in Haw 631.

#### **Haw 631 History of Hawaiian Language and Literature (3)**

Hawaiian language and literature since contact with Europeans. Styles of language and types of literature. Relationships between Hawaiian and other languages, especially Hawai'i Creole English. Pre: Haws 452 or 453. Recommended: Ling 331, 421, 437.

#### **Haw 632 Teaching Hawaiian as a Second Language (3)**

Teaching Hawaiian to speakers of other languages, particularly Hawai'i Creole English. Problems faced by students in acquiring native-like fluency. History of Hawaiian language teaching. Pre: Haw 453, 454. Recommended: Haws 431, Ling 351.

#### **Haw 654 Advanced Hawaiian Grammar (3)**

Advanced Hawaiian aspects of Hawaiian grammar. Pre: Haw 453, 454; Ling 321.

#### **Haw 690 Study in the Hawaiian Speaking Community (3)**

Off-campus field work experience. Pre: Haw 453, 454, 631 and Haws 452 or 453. See Hawaiian Studies graduate chair for overseas minority language study option substitute for this course.

#### **Haw 694 Special Topics in Hawaiian Language (3)**

Specialized topics at the graduate level. Course content will vary; may be repeated for credit provided a different topic is studied. Pre: Haw 454.

#### **Haw 699V Directed Studies in Hawaiian Language (3)**

Study outside regular classroom under faculty direction. Permission of instructor and statement of planned reading or research required.

#### **Haw 700 Thesis Research (1-6)**

Research and writing of thesis. Pre: Haws 630.

## **Hawaiian Studies (Haws)**

#### **Haws 111 The Hawaiian 'Ohana (3) (S)**

The culture of the Hawaiian people as expressed in the home and family. The position of the family as the basis of the larger Hawaiian society and culture. Both ancient and modern aspects covered; extensive use of Hawaiian terminology.

#### **Haws 175 Introduction to the Music of Polynesia (3) (AY)**

A general survey of the indigenous and acculturated music of eight major Polynesian island groups: Tonga, Sāmoa, New Zealand, Cook Islands, Society Islands, Marquesas Islands, Easter Island and Hawai'i. Music is viewed as both an organization of sound and as a product of culture and people. (Same as Mus 175)

#### **Haws 176 The History and Development of Hawaiian Music (3) (AY)**

A general survey of the interrelationships of indigenous and acculturated Hawaiian music. Vocal music genres to be discussed include: chant; Christian hymn singing; secular choral singing; male and female falsetto singing; *Chalangalang*; *Hapa Haole*; and contemporary. Instrumental music genres include: pre-European instrumental styles; slack key guitar; *'ukulele*; and steel guitar. (Same as Mus 176)

#### **Haws 194 Special Topics in Hawaiian Studies (1-3)**

Topics chosen by instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: consent of instructor.

#### **Haws 199V Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required.

#### **Haws 205 Hawaiian Music in Action (2) (S)**

Learning Hawaiian songs as a means of strengthening knowledge of language, poetry and culture. A) *mele 'āina*, E) *mele pili kanaka*, I) other. (May be repeated for credit if subletters are different.) Conducted in Hawaiian. Pre: HAW 101 or 107.

#### **Haws 211 Hawaiian Ethnobotany (3) (S)**

Hawaiian herbs and plants: their identification, their place in the heritage of the Hawaiian people, their medicinal properties, and other practical uses; extensive use of Hawaiian terminology.

#### **Haws 213 Hawaiian Ethnozoology (3) (S)**

Hawaiian fishes, birds, and other creatures: their identification, their place in the heritage of the Hawaiian people, methods of capture, their practical uses; extensive use of Hawaiian terminology.

#### **Haws 294 Special Topics in Hawaiian Studies (1-3)**

Topics chosen by the instructor. The course content will vary. It may be repeated for credit, provided that a different topic is studied. Pre: Hawaiian Studies course at the introductory level and consent of instructor.

#### **Haws 299V Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required. Pre: sophomore standing.

#### **Haws 305 Hana No'eau (1) (S)**

Traditional Hawaiian arts taught in Hawaiian. (A) *lau hala*, (E) *'upena/kōkō* (types of nets), (I) *hulu manu* (feather work), (O) other. (May be repeated for credit if topics are different.) Pre: HAW 202 or equivalent, which, with permission, may be taken concurrently, or equivalent.

#### **Haws 351 Foundations for Hawaiian Medium Education (3)**

Goals of Hawaiian medium education and their cultural, philosophical, historical and legal bases. Basic tools for planning, developing, delivering and evaluating instruction of Hawaiian-speaking children, including techniques for management and age-appropriate development from a Hawaiian cultural base. Conducted in Hawaiian. Pre: permission from the Division.

#### **Haws 352 Language Arts in Hawaiian Medium Education (2)**

Literacy in Hawaiian and associated comprehension and speaking skills. Teaching other languages, including English, to Hawaiian-literate students. Use and teaching of oral and written literature in dramatized presentations. Conducted in Hawaiian. Pre: permission from the Division.

#### **Haws 353 Math and Science in Hawaiian Medium Education (2)**

Mathematical and scientific concepts within a Hawaiian cultural and environmental framework. Techniques for teaching content, problem solving, and critical thinking to Hawaiian-speaking children. Conducted in Hawaiian. Pre: permission from the Division.

#### **Haws 354 Social Studies in Hawaiian Medium Education (2)**

Major global and local social processes that affect the lives of Hawaiian-speaking children and their families. Integration of social studies and practical arts with a Hawaiian historical and cultural perspective. Conducted in Hawaiian. Pre: permission from the Division.

**Haws 355 The Arts in Hawaiian Medium Education (2)**

Group and individual expression to convey thoughts and emotions through various media, including music, fine arts, dance, fitness, and computer technology and physical education. Understanding and appreciation of such expressions and their integration in Hawaiian tradition. Conducted in Hawaiian. Pre: permission from the Division.

**Haws 361 Pana Hawai'i (3) (Y)**

Traditions and literature of *pana* (named sites of cultural importance). Emphasis on islands of (A) Hawai'i, (E) Maui, (I) Moloka'i and Lāna'i, (O) O'ahu, (U) Kaua'i and Ni'ihau. Conducted in Hawaiian. (May be repeated for credit if subletters are different.) Pre: HAWS 111; HAW 202 or equivalent, which, with permission, may be taken concurrently, or equivalent.

**Haws 394 Special Topics in Hawaiian Studies (1-3)**

Topics chosen by the instructor. The course content will vary. It may be repeated for credit provided a different topic is studied. Pre: Hawaiian Studies course at the intermediate level and consent of instructor.

**Haws 399V Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required. Pre: junior standing.

**Haws 431 Living Hawaiian Language Communities (3)**

An examination of the Hawaiian-speaking community of Hawai'i today and the interface between language, culture, and other languages and cultures in Hawai'i. Pre: Haw 403 or equivalent, which, with permission, may be taken concurrently.

**Haws 451 Hawaiian Medium Field Experience I (9)**

Practical experience and application of teaching methods and strategies in content areas in Hawaiian medium schools. Must be taken credit/no credit. Conducted in Hawaiian. Pre: completion of Haws 351, 352, 353, 354, 355; concurrent enrollment in Haws 452 and permission from the Division.

**Haws 452 Hawaiian Medium Field Experience I Seminar (3)**

Problems in application of theory in the delivery of instruction in Hawaiian medium classrooms. The interface between the Hawaiian medium classrooms and English medium classrooms of an individual school. Must be taken credit/no credit. Conducted in Hawaiian. Pre: concurrent registration in Haws 451 and permission from the Division.

**Haws 453 Hawaiian Medium Field Experience II (9)**

Supervised teaching in Hawaiian medium schools. Must be taken credit/no credit. Conducted in Hawaiian. Pre: concurrent registration in Haws 454 and permission from the Division.

**Haws 454 Hawaiian Medium Field Experience II Seminar (3)**

Issues in the delivery, administration, and support of Hawaiian medium education. Must be taken credit/no credit. Conducted in Hawaiian. Pre: concurrent registration in Haws 453 and permission from the Division.

**Haws 462 Haku Mele (3) (AY)**

Hawaiian poetry as literature. Survey and analysis of traditional and modern forms, methods of composition, poetic language, imagery, and *kaona* (hidden meaning). Interpreting and composing poetry in Hawaiian. Pre: HAW 303, which may be taken concurrently, or consent of the instructor; HAWS 361 recommended. Conducted in Hawaiian.

**Haws 463 Introduction to Hawaiian Narrative Literature (3)**

Introduction to Hawaiian narrative literature, both oral and written. Short traditional tales, excerpts from longer forms, comparison of narrative literature with poetry and conversational event recordings. Pre: Haw 304, which, with permission may be taken concurrently.

**Haws 464 Hawaiian Composition (3)**

Essays and articles in Hawaiian focusing on traditional Hawaiian aesthetics and well-formed presentation. Attention to cultural differences in presentation of material. Pre: Haw 404, which, with permission, may be taken concurrently. Recommended: Eng 315, Haw 453.

**Haws 471 Mele 'Auana (3) (AY)**

Hawaiian musical traditions initiated since 1778 (e.g., falsetto, slack key, *hīmeni*, etc.). Traditions concerning their sources and history. Some attention given to performance. Conducted in Hawaiian. Pre: HAW 202 or equivalent, which, with permission, may be taken concurrently; HAWS 361, HAWS 462.

**Haws 472 Hula 'Auana (3) (AY)**

Hawaiian dance forms initiated since 1778. Traditions concerning their sources and history. Some attention given to performance. Conducted in Hawaiian. Pre: HAW 202 or equivalent, which, with permission, may be taken concurrently; HAWS 361, 462, 471 recommended.

**Haws 473 Oli/Mele Kahiko (3) (AY)**

Hawaiian musical forms initiated prior to 1778 (e.g. chanted lamentations, chanted greetings, dance chants, etc.). Traditions concerning their sources and history. Some attention given to performance. Conducted in Hawaiian. Pre: HAW 202 or equivalent, which, with permission, may be taken concurrently; HAWS 361, 462, 471 recommended.

**Haws 474 Hula Kahiko (3) (AY)**

Hawaiian dance forms initiated prior to 1778. Traditions concerning their sources and history. Some attention given to performance. Conducted in Hawaiian. Pre: HAW 304 or equivalent, which, with permission, may be taken concurrently; HAWS 361, 462, 471, 473 recommended.

**Haws 494 Special Advanced Topics in Hawaiian Studies (3) (AY)**

Topics chosen by the instructor. Course content will vary. May be repeated for credit, provided that a different topic is studied. Pre: Hawaiian Studies or Hawaiian language course at the intermediate level and consent of instructor.

**Haws 497 Hawaiian Studies Seminar (3) (Y)**

Readings, research and field work on the traditional and contemporary Hawaiian community. Conducted in Hawaiian. Pre: HAW 303 and senior standing, or consent of instructor.

**Haws 499V Directed Studies (1-3)**

Permission of instructor and statement of planned reading or research required. Pre: senior standing.

**Haws 661 Advanced Hawaiian Music (3)**

Examination of indigenous and foreign forms found in acculturated Hawaiian music. Conducted in Hawaiian. Pre: Haws 471, 473.

**Haws 662 Applied Hawaiian Chant (3)**

Applied study of the performance of various Hawaiian chant styles. Conducted in Hawaiian. Pre: Haws 462, 473, 474. Recommended: Haws 453.

**Haws 663 Traditional Hawaiian Literature (3)**

Focuses on indigenous oral and written literature forms and their relationships to folk tales. Conducted in Hawaiian. Pre: Haws 452, 453.

**Haws 664 European-Influenced Hawaiian Literature (3)**

Hawaiian literature developed on European models, such as biographies, late nineteenth century histories and journals. Conducted in Hawaiian. Pre: Haw 425, Haws 453.

**Haws 665 Ethnological and Historical Narratives (3)**

Descriptions written in Hawaiian regarding traditional Hawaiian culture and history. Cultural topics range from religion and court life to farming and fishing. Conducted in Hawaiian. Pre: Haw 453, Haws 663. Recommended: Anth 385, 386; Haws 212, 213.

**Haws 694 Special Topics in Hawaiian Culture (3)**

Specialized topics at the graduate level. Course content will vary; may be repeated for credit provided a different topic is studied. Conducted in Hawaiian.

**Haws 699V Directed Studies in Hawaiian Culture (3)**

Study outside regular classroom under faculty direction. Permission of instructor and statement of planned reading or research required. Conducted in Hawaiian.

# COLLEGE OF CONTINUING EDUCATION AND COMMUNITY SERVICE (CCECS)

FOR INFORMATION, PLEASE CALL:

**Office of the Dean**  
(808) 974-7664  
**Conference Center**  
(808) 974-7555  
**Summer Session**  
(808) 974-7664  
**Senior Programs**  
(808) 974-7555

## Personal and Professional Development Program

*Professional Development/ Corporate Training.* In-service training programs for various professions, government agencies, and the private sector are available.

*Teacher In-service Training.* A variety of in-service courses are offered in Hilo for professional teachers to help keep teachers abreast of current information in particular subject areas. These courses are not applicable toward baccalaureate or graduate degrees.

*Personal Development.* UH Hilo strives to meet the needs of the community by providing special programs and presentations on timely issues and topics.

## Summer Session

A wide range of credit and non-credit course offerings, student activities, and special events are offered. Student groups from abroad and the mainland U.S. reside on campus or in University-approved housing. Summer session is a unique multi-cultural experience.

A special Marine Science Summer Program is offered during the six-week session. The program is designed to stimulate the student's interest, provide experience-oriented learning, and take full advantage of the island's exotic offering.

## Senior Citizen Programs

In the spirit of life-long learning, UH Hilo actively participates with state, county, and national agencies in providing unique educational opportunities for Hawai'i County senior citizens. No pre-requisite or prior formal education is required to attend these programs. Special programs include the Hawai'i Island Senior Institute (HISI), which offers a wide variety of liberal arts programs designed for seniors, and coordination of a SeniorNet Computer Learning Center which offers introductory computer courses and access to a computer lab.

## Travel Study Programs

For over 20 years, a variety of international and mainland United States study groups have experienced the Big Island learning through travel study programs.

Travel Studies programs have included some or all of the following: ESL/English conversation classes; volcano studies; Hawaiian studies; cultural diversity and social organization; and alternative energy technology. Travel Study Programs are custom designed to fit the needs of requesting client groups.

## The Conference Center

The UH Hilo Conference Center has a well-established reputation for coordination and implementation of state, national and international conferences.

The University, by virtue of its unique location, has become the hub of Pacific Rim conferencing and Hilo, with its multi-lingual and multi-cultural population, academic resources and networking capabilities, presents itself as a prime location for national and international conferences. The Conference Center is meeting the new challenges of international conferences with improved technological and support services from the University and a highly trained professional support staff.

Conference services include program development, fiscal management, curriculum and resource support, logistical coordination, and publicity and promotion. With the demand for the number of conferences increasing, and the organizational structure of the implementation of conferences more complex, conferencing has become an integral part of the development of the expanded services offered by UH Hilo.



photo by Janet Babb

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 CAS - College of Arts and Sciences  
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 OSA - Office of Student Affairs  
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# INDEX

- A**
- Academic dishonesty 38
  - Academic grievances 38
  - Academic probation 37
  - Academic substitutions & waivers 37
  - Accreditation 10
  - ADA Office 15
  - Administration, listing 131
  - Administration of Justice program description 94
  - Admission of
    - auditors 33
    - graduate students 33
    - Hawai'i residents as freshmen 32
    - international students 32
    - nonresidents 32
    - returnees 33
    - transfer Students 33
    - unclassified nondegree students 33
    - undergraduates 31
  - Admission procedures 31
  - Admission to Summer Session 33
  - Admissions Ziplist 31
  - Admitted students' profiles 32
  - Agriculture Development Program 47
    - admission 34
  - Agriculture Minor 46
  - Americans with disabilities act office 15
  - Anthropology, department & courses 58
  - Arts, Bachelor of
    - general education requirements 41
  - Assessment, participation in 38
  - Astronomy
    - department & courses 61
  - Attendance 37
  - Auditor admission 33
- B**
- Bachelor of Arts
    - general education requirements 41
  - Bankruptcy 37
  - Bookstore 15
  - Business Administration
    - department & courses 65
- C**
- Center for Gifted & Talented Native Hawaiian Child 12
  - Center for Hawaiian Language and Culture through the Medium of Hawaiian
  - Cheating 38
  - Chemistry, department & courses 74
  - Chinese, courses 93
  - Classification of students 35
  - College of Agriculture, Forestry & Natural Resources 45
    - Agriculture Minor 46
      - courses 48
        - Agribusiness 49
        - Agriculture 48
        - Agriculture Economics 49
        - Agronomy 49
        - Animal Science 50
        - Entomology 52
        - Forestry 52
        - Horticulture 52
        - Plant Pathology 53
        - Plant Physiology 53
        - Soil Science 54
      - description 11
      - purpose 45
      - special programs 47
        - Agriculture Development Program 47
        - Student-Managed Farm Enterprise Projects 47
        - Tropical Forestry Certificate 46
  - College of Arts & Sciences 55
    - academic advising 55
    - curricula 56
    - description 11
    - educational philosophy 55
    - evaluation of students 55
    - purpose 55
    - special programs 56
  - College of Arts & Sciences courses 58
    - Anthropology 58
    - Astronomy 61
    - Biology 62
    - Business Administration 65
    - Chemistry 70
    - Communication 71
    - Computer Science 73
    - Economics 75
    - Education 76
    - Education, Master of 78
    - English 80
    - Environmental Studies & Geography 83
    - Geography & Environmental Studies 83
    - Health & Physical Education 87
    - History 88
    - Interdisciplinary Studies 91
    - Japanese Studies 91
    - Languages 92
      - Chinese 93
      - French 93
      - Japanese 93
      - Spanish 94
    - Liberal Studies 94
      - Administration of Justice 94
      - Drama 94
      - Recreational Management 95
      - Religious Studies 95
    - Linguistics 95
    - Marine Science 97
    - Mathematics 99
    - Natural Science 101
      - Natural Science Certificate 102
    - Nursing 103
    - Pacific Island Studies 106
    - Performing Arts 108
      - Dance 110
      - Drama 109
      - Music 107
      - Music, applied 109
    - Philosophy 111
      - Asian & Comparative 112
      - Western 111
    - Physical Education & Health 87
    - Physics 112
    - Political Science 115
    - Women's Studies 123
  - College of Continuing Education and Community Service (CCECS)
    - Collegiate sports 17
  - Communication, department & courses 71
  - Community, City of Hilo 10
  - Computer & network access, policy for 15
  - Computer Science, department & courses 72
  - Conference Center 130
  - Counseling 18
  - Course numbering system 35
  - Credit-by-examination 36
  - Credits, grades, and examinations 35
- D**
- Dance, courses 111
  - Degrees offered 11
  - Directed reading & directed studies 37
  - Directed studies & directed Reading 37
  - Disability services 18
  - Dismissal 37
  - Drama
    - courses 109
    - program description 94
- E**
- Early admission program 33
  - Economics, department & courses 75
  - Education, department & courses 76
  - Education, Master of
    - degree description 43
    - program & courses 81
  - Education requirements specific 39
  - Educational opportunity programs 27
  - Educational rights & privacy act 28
  - English, department & courses 80
  - Ensembles 16
  - Environmental Internship Programs 25
  - Environmental Studies & Geography, department & co 83
  - Examinations, credits & grades 35
  - Exchange program 25
- F**
- Facilities 10
  - Faculty 12
    - listing 131
  - Farm Enterprise Projects 47
  - Fees, student 44
  - Final examinations 37
  - Financial Aid 18
    - other listings 24
    - types of 19
  - French, courses 93
  - Freshmen profile, Fall 1999 32
- G**
- General education requirements
    - Arts, Bachelor of 41
  - Geography & Environmental Studies, department & c 83
  - Grades, credits & examinations 35
  - Graduate student admission 33
  - Graduation requirements 38
  - Grants & scholarships 19
- H**
- Hale Kuamo'o
    - Center for Hawaiian Language and Culture Through the Medium of Hawaiian 13
  - Hawai'i, Island of 10
  - Hawai'i Small Business Development Center 13
  - Hawaiian Language
    - College of 124
    - courses 127
  - Hawaiian Language & Literature
    - Master of Arts Degree Description 42
  - Hawaiian Leadership Development Program 27
  - Hawaiian Medium Teacher Education Program, Kahuawaiola 125
  - Hawaiian Studies
    - Bachelor of Arts 124
    - courses 128
  - Health & Physical Education, department & courses 87
  - Health insurance 25
  - Health services 25

Hilo, City of 10  
 History, department & courses 89  
 Honors  
   program description 34  
 Honors, Dean's List 38  
 Housing 26

**I**

Interdisciplinary Studies, courses 91  
 International Students 24  
   admission of 32  
 Internship  
   environmental 25  
 Intramural Recreation 17

**J**

Japanese Language, courses 93  
 Japanese Studies, department & courses 91

**K**

Ka Haka 'Ula O Ke'elikōlani 124  
   description 11  
   Hawaiian Studies, Bachelor of Arts 124  
   Master of Arts in Hawaiian Language & Literature 126  
   Nāwahīokalani'ōpu'u Hawaiian Medium Laboratory Sch 125  
 Ka Haka 'Ula O Ke'elikōlani Courses 127  
   Hawaiian Language 127  
   Hawaiian Studies 128  
 Kahuawaiola Hawaiian Medium Teacher Education Program  
 Kālakaua Marine Education Center (KMEC) 13  
   facilities 13

**L**

Languages, department & courses 92  
 Learning resources 12  
 Linguistics, department & courses 95  
 Loans 23

**M**

Marine Option Program 13  
 Marine Scienc Summer Program 13  
 Master of Arts in Hawaiian Language & Literature  
   degree program description 42  
 Master of Education  
   degree program description 43  
 Math placement 31  
 Mathematics, department & courses 100  
 Medical clearance 26  
 Minority access & achievement program 27  
 Mission, University of Hawai'i at Hilo 10  
 MOP 13  
 Music, Applied  
   program & courses 109

Music, program & courses 107

**N**

Nā Pua No'eau 12  
 National Student Exchange 25  
 Native Hawaiian Center of Excellence 27  
 Natural Sciences, department & courses 101  
 New Student Orientation 14, 32  
 Nondiscrimination Policy 14  
 Nonresident admission 32  
 Notice to persons with disabilities 15  
 Nursing  
   department & courses 103

**O**

Orientation, new student 32

**P**

Pacific Island Studies, department & courses 108  
 Performing Arts, department & courses 108  
 Persistence rate 15  
 Personal & Professional Development Program 130  
 Philosophy, department & courses 111  
 Physical Education & Health, department & courses 87  
 Physics, department & courses 112  
 Placement exams  
   math 31  
   writing 32  
 Plagiarism 38  
 Political Science, department & courses 115  
 Privacy act & educational rights 28  
 Professional & Personal Development Program 130  
 Professional Staff 138  
 Profile of admitted students 32

**Q**

Quantitative Underwater Ecological Surveying Techn 13

**R**

Readmission 37  
 Recreational Management  
   program description 95  
 Religious Studies  
   program description 95  
 Repeating courses 37  
 Residence Halls 26  
 Residency regulations for tuition purposes 29  
 Returnee admission 33

**S**

Satisfactory academic progress 37  
 graduate programs 38

SBDC 13  
 Scholarships & grants 19  
 Senior Citizen Programs 130  
 Sexual harassment & Assault 14  
 Spanish, courses 94  
 Specific degree requirements 39  
 Student classification 35  
 Student conduct regulations 29  
 Student employment 24  
 Student health insurance 25  
 Student organizations 16  
 Student Support Services Program 27  
 Students  
   international 24  
 Study abroad 25  
 Summer Session 130  
   admission 33  
   Marine Science Summer Program 13

**T**

Testimonials 5  
   de Guzman, Jacqueline 5  
   King, David R. 8  
   Mina, Alfred J. 7  
   Naupa, Anna 9  
   Ponnampalam, Louisa Shobhini 6  
 Theatre 16  
 Time limits 39  
 Transfer credit 34  
 Transfer student admission 33  
 Travel study programs 130  
 Tropical Forestry Certificate 46  
 Tuition & fees 44  
   refund policy 44  
 Tuition deposit 32

**U**

UH Hilo Theatre 16  
 Unclassified nondegree student admission 33  
 University After Dark 11  
 University, courses 123  
 Upward Bound 28  
   math/science regional center 28

**V**

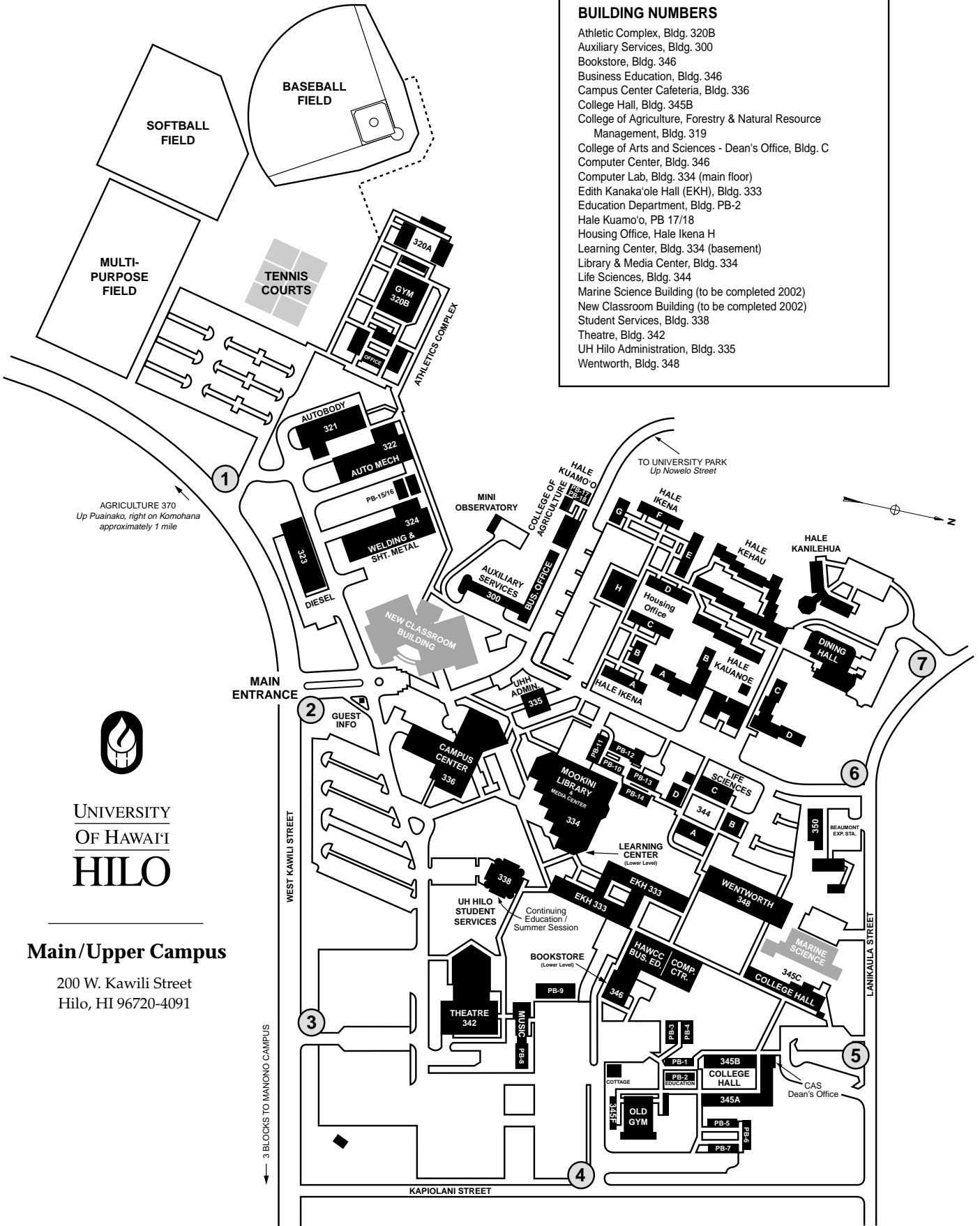
Veterans 26

**W**

Waivers & substitutions, academic 37  
 Western Undergraduate Exchange (WUE) 25  
 Women's Center 12  
 Women's Health Clinic 25  
 Women's Studies, program & courses 123  
 Writing Intensive Program 14  
 Writing placement 32

**BUILDING NUMBERS**

- Athletic Complex, Bldg. 320B
- Auxiliary Services, Bldg. 300
- Bookstore, Bldg. 346
- Business Education, Bldg. 346
- Campus Center Cafeteria, Bldg. 336
- College Hall, Bldg. 345B
- College of Agriculture, Forestry & Natural Resource Management, Bldg. 319
- College of Arts and Sciences - Dean's Office, Bldg. C
- Computer Center, Bldg. 346
- Computer Lab, Bldg. 334 (main floor)
- Edith Kanaka'ole Hall (EKH), Bldg. 333
- Education Department, Bldg. PB-2
- Hale Kuamo'o, PB 17/18
- Housing Office, Hale Ikena H
- Learning Center, Bldg. 334 (basement)
- Library & Media Center, Bldg. 334
- Life Sciences, Bldg. 344
- Marine Science Building (to be completed 2002)
- New Classroom Building (to be completed 2002)
- Student Services, Bldg. 338
- Theatre, Bldg. 342
- UH Hilo Administration, Bldg. 335
- Wentworth, Bldg. 348



AGRICULTURE 370  
Up Puainako, right on Komohana  
approximately 1 mile



UNIVERSITY  
OF HAWAII  
**HILO**

**Main/Upper Campus**

200 W. Kawili Street  
Hilo, HI 96720-4091

3 BLOCKS TO MANONO CAMPUS

WEST KAWILI STREET

KAPIOLANI STREET

LANIKAULA STREET



**BUILDING NUMBERS**

- Art Complex, Bldg. 385B & C, 394, 395
- Aux. Shop, Bldg. 389
- Classrooms 30-33, Bldg. 380
- Classrooms Bldg. 381-388
- Classrooms, MPA 1&2
- Disability Services, Bldg. 379
- Hālau Ho'ona'auao, Bldg. 380, Rm. 34
- HawCC Admissions & Records, Bldg. 378
- HawCC Ag Mechanics, Bldg. 386
- HawCC Business Office, Bldg. 397
- HawCC Cafeteria, Bldg. 382
- HawCC Carpentry, Bldg. 390
- HawCC Carpentry Shed, Bldg. 386A
- HawCC Early Childhood, Bldg. 385A
- HawCC Electronics Electricity, Bldg. 391
- HawCC Financial Aid, Bldg. 379A
- HawCC OCET, Bldg. 379A
- HawCC OCET Computer Learning Center, Bldg. 380
- HawCC Personnel Office, Bldg. 397
- HawCC Provost, DOAS & DOSS, Bldg. 378
- HawCC Skills Development Ctr./EMS, Bldg. 381
- HawCC Student Services, Bldg. 379
- HawCC Summer Session, Admissions, Bldg. 378
- HawCC The Children's Center, Bldg. 379
- HawCC The Learning Center, Bldg. 388
- HawCC T&I Division Office & Conference Rm., Bldg. 392
- I Ola Hāloa, Bldg. 380, Rm. 34
- Na Pua No'eau, Bldg. 381A
- UH Hilo CCECS Multi-Purpose Rm., Bldg. 379
- UH Hilo Conference Center, Bldg. 383
- UH Hilo Upward Bound, Bldg. 383



UNIVERSITY  
OF HAWAI'I  
**HILO**

**Manono Campus**  
200 W. Kawili Street  
Hilo, HI 96720-4091

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## ACADEMIC CALENDAR 2001-2002

### Fall 2001 Semester

Holiday: Admissions Day .....	Aug 17 (F)
Orientation, Advising and Registration .....	Aug 20-24 (M-F)
<b>First Day of Instruction .....</b>	<b>Aug 27 (M)</b>
Last Day to Register or Add a Class .....	Aug 31 (F)
Holiday: Labor Day .....	Sept 3 (M)
Last Day to Exercise Credit/No Credit .....	Sept 5 (R)
Last Day to Withdraw from Courses .....	Oct 19 (F)
"I" Removal Deadline: Student to Instructor .....	Oct 29 (M)
Last Day for International Students to Apply for Spring 2002 .....	Oct 31 (W)
Holiday: Veteran's Day .....	Nov 12 (M)
"I" Removal Deadline: Instructor to Records Office .....	Nov 13 (T)
Last Day to Apply for Credit-by-Exam for Fall .....	Nov 13 (T)
Holiday: Thanksgiving Day .....	Nov 22 (R)
Non-Instructional Day (no classes) .....	Nov 23 (F)
Last Day to Submit Credit-by-Exam Results to Records Office .....	Nov 26 (M)
Last Day to Apply for Spring 2002 Semester .....	Nov 30 (F)
<b>Last Day of Instruction .....</b>	<b>Dec 13 (R)</b>
Final Examinations .....	Dec 17-21 (M-F)
UH Hilo Commencement .....	Dec 22 (S)
Final Grades Due at Records Office .....	Dec 24 (M) 12 noon
Fall Semester Ends .....	Dec 24 (M)

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#### Early Registration for Spring 2002 (tentative dates, subject to change)

Advising .....	Nov 26-Nov 30 (M-F)
Early Registration for Classified Students via WEBSIS and TT/VR systems .....	Nov 28-Dec 18
Payment of Tuition/Fees for Early Registration .....	Dec 19 (R)

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### Spring 2002 Semester

Holiday: New Year's Day .....	Jan 1 (T)
Orientation, Advising and Registration .....	Jan 7-11 (M-F)
<b>First Day of Instruction .....</b>	<b>Jan 14 (M)</b>
Last Day to Register or Add a Class .....	Jan 18 (F)
Holiday: Martin Luther King, Jr. Day .....	Jan 21 (M)
Last Day to Exercise Credit/No Credit .....	Jan 23 (W)
Last Day to Apply for 2002 Spring Graduation .....	Jan 31 (R)
Holiday: Presidents' Day .....	Feb 18 (M)
Last Day to Withdraw from Courses .....	Mar 1 (F)
Spring Recess .....	Mar 25-29 (M-F)
Holiday: Prince Kuhio Day .....	Mar 26 (T)
Last Day to Apply for Credit-by-Exam for Spring .....	Apr 1 (M)
"I" Removal Deadline: Student to Instructor .....	Apr 1 (M)
"I" Removal Deadline: Instructor to Records Office .....	Apr 8 (M)
Last day to Submit Credit-by-Exam Results to Records Office .....	Apr 12 (F)
<b>Last Day of Instruction .....</b>	<b>May 8 (W)</b>
Final Examinations .....	May 13-17 (M-F)
UH Hilo Commencement .....	May 18 (S)
Final Grades Due at Records Office .....	May 20 (M) 4:00 pm
Spring Semester Ends .....	May 20 (M)
Last Day to Apply for 2001 Summer Graduation .....	May 31 (F)
Last Day to Apply for Fall 2002 Admission .....	Jul 1 (M)
Last Day to Apply for 2002 Fall Graduation .....	Jul 31 (W)

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#### Early Registration for Fall 2002 (tentative dates, subject to change)

Advising .....	Apr 22-26 (M-F)
Early Registration for Classified Students via TT/VR system .....	Apr 24-Jul 31
Payment of Tuition/Fees for Early Registration .....	Jul 31 (W)

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#### Interim Session and Summer Session

Interim Session: May 14-June 8, 2002  
Summer Session: June 12-July 20, 2002

Academic Calendar subject to change.