



# Instructional Support, Research, and Service Units

The following facilities are an integral part of the University of Hawai'i at Mānoa. Some are designed for the purpose of research, some for research and teaching, and others to provide services to UH Mānoa students, faculty, or staff, or the surrounding community. Other units under the jurisdiction of a particular college or school are listed in the appropriate college or school section.

## **Center on Aging**

Office of Public Health Studies  
School of Medicine  
1960 East-West Road, C-106  
Honolulu, HI 96822  
Tel: (808) 956-5001  
Fax: (808) 956-9582

The Center on Aging (COA) was established in July 1988 to stimulate and coordinate gerontological and aging instruction, research, and community service on the Mānoa campus and to promote collaboration between the University and other organizations concerned with aging. The gerontology program draws together faculty and students from a variety of academic areas. The center coordinates two certificate programs (undergraduate and advanced) and supports the development of new courses. For information on the certificate programs see

the "School of Medicine" section of this Catalog. The center conducts interdisciplinary research (with a special interest in cross-cultural studies) and provides research-related assistance to faculty and students conducting their own studies in aging. The center also assists community organizations and individuals in training, research, or evaluation projects.

## **Institute for Astronomy**

2680 Woodlawn Drive  
Honolulu, HI 96822  
Tel: (808) 956-8312  
Fax: (808) 988-2790  
Web: [www.ifa.hawaii.edu](http://www.ifa.hawaii.edu)

The Institute for Astronomy (IFA) conducts research in astronomy and astrophysics and assists in graduate training. It operates observatories on Haleakalā, Maui, for solar, satellite, and lunar ranging studies. The institute also conducts planetary, stellar, extragalactic, and infrared studies on Mauna Kea on the Big Island, using telescopes operated by the University of Hawai'i and by Canada, France, the Netherlands, the United Kingdom, and other countries. University of Hawai'i astronomers are allowed observing time on all telescopes.

## **Contents**

Center on Aging .....	513
Institute for Astronomy .....	513
Cancer Research Center of Hawai'i .....	513
Cooperating Institutions .....	514
East-West Center .....	514
Diving Safety Program .....	514
Environmental Center .....	515
External Affairs and University Relations .....	515
Office of Faculty Development and Academic Support .....	516
Industrial Relations Center .....	516
Information Technology Services .....	516
Office of International Affairs .....	516
Laboratory Animal Service .....	516
Harold L. Lyon Arboretum .....	516
Spark M. Matsunaga Institute for Peace .....	516
Pacific Biomedical Research Center .....	517
Social Science Research Institute .....	517
University of Hawai'i Press .....	518
Waikiki Aquarium .....	518
Water Resources Research Center .....	518

## **Cancer Research Center of Hawai'i**

1236 Lauhala Street  
Honolulu, HI 96813  
Tel: (808) 586-3010  
Fax: (808) 586-3009

The Cancer Research Center of Hawai'i (CRCH) is a free-standing organized research unit of UH Mānoa focusing on cancer research. CRCH faculty are comprised of scientists and physicians from various disciplines reflecting the broad research interests of the Cancer Center. CRCH is a National Cancer Institute (NCI)-designated Cancer Center. This is a prestigious designation granted only to the most eminent and successful cancer centers in the nation after a vigorous peer review. The prestigious NCI designation comes with a Cancer Center Support Grant which provides funding for various research core facilities such as biostatistics, genomics, nutrition, molecular biology, and analytical chemistry. CRCH also

operates the Hawai'i Tumor Registry and a clinical trials unit which makes clinical trials available to cancer patients in Hawai'i.

Center faculty are engaged in all aspects of cancer research, from basic laboratory research, epidemiology and prevention to treatment, continuing care, and the quality of life and generate over \$27 million in extramural research support annually. In addition to conducting fundamental research in cancer biology, the CRCH also provides training opportunities for undergraduate, MS, MD, and PhD students enrolled in academic disciplines closely aligned with the faculty's research interests.

The center's research activities are organized into four programs: (1) cancer etiology which encompasses both basic laboratory and epidemiologic scientists who seek to identify factors, both environmental and genetic, that affect the risk of cancer, (2) clinical sciences which seeks to reduce cancer morbidity, and mortality as well as improve the quality of life for cancer patients, (3) social and behavioral sciences, which seeks improved methods to implement community-based prevention programs, and (4) the natural products program, which in partnership with faculty from the Chemistry department, seeks to identify new cancer therapeutic drugs from natural products isolated from the diverse plant species found in Hawai'i and the Pacific Basin. Through these programs, the CRCH brings together a broad spectrum of knowledge to optimize cancer prevention and treatment for the citizens of Hawai'i and provides unique educational and research opportunities for UH Mānoa students.

### **Cooperating Institutions**

The University extends its research capacity and service to the state through cooperative agreements and relationships with various institutions, including Bernice P. Bishop Museum, East-West Center, Hawaiian Agricultural Research Center, Honolulu Academy of Arts, National Marine Fisheries Service, National Park Service, Nature Conservancy of Hawai'i, Pacific International Center for High Technology Research, Tropical Fruit and Vegetable Research Laboratory, U.S. Fish and Wildlife Service, U.S. Geological Survey's Hawaiian Volcano Observatory, several local hospitals, and numerous state agencies.

### **East-West Center**

1601 East-West Road  
Honolulu, HI 96848-1601  
Tel: (808) 944-7111  
Fax: (808) 944-7376  
E-mail: ewcinfo@EastWestCenter.org  
Web: www.EastWestCenter.org

The East-West Center is an internationally recognized education and research organization established by the U.S. Congress in 1960 to strengthen understanding and relations between the United States and the countries of Asia and the Pacific. Originally part of the University of Hawai'i, the East-West Center in 1975 became an independent institution with an international board of governors.

The Center helps promote the establishment of a stable, peaceful and prosperous Asia Pacific community in which the United States is a natural, valued and leading partner. The Center carries out its mission through programs of cooperative study, training, research and dialogue.

EWC research programs bring together specialists from throughout the region to examine major issues of critical importance in U.S.-Asia-Pacific relations, including domestic and international politics, security, regional and global economic arrangements, national development strategies, ecosystem governance, transboundary and urban air pollution, and population and health.

Dialogue and professional enrichment programs focus on groups central to the communication of ideas: the media, political and policy leaders, and educators.

Educational programs develop the human resources needed in a new era of increased interdependence. The Center provides grants for students to study at the University of Hawai'i.

Funding for the Center comes from the U.S. government with additional support provided by private agencies, individuals, corporations, and a number of Asian and Pacific governments.

### **Diving Safety Program (SCUBA and Compressed Gas Diving)**

Environmental Health and Safety Office  
2040 East-West Road  
Honolulu, HI 96822  
Tel: (808) 956-9643  
Fax: (808) 956-3205  
E-mail: dpence@hawaii.edu  
Web: www2.hawaii.edu/ehso/diving

SCUBA and compressed gas diving operations are important tools in the research and educational programs of the students, staff, visiting scientists, and faculty of the University of Hawai'i. The University of Hawai'i Diving Safety Program (UHDSP) supports these activities and ensures they are conducted in a safe manner. UH is an organizational member of the American Academy of Underwater Sciences (AAUS) and adheres to the AAUS Guidelines for the Conduct of Scientific Diving Programs. The body governing University diving activities is the University of Hawai'i Diving Control Board. The University Diving Safety Officer is responsible for day-to-day operation of the program.

Regardless of prior recreational SCUBA experience or certification, all UH students, faculty, staff, and visitors must be authorized by UHDSP before participating in University-related diving activities. UH divers serve a Diver-In-Training period and then gain a University Scientific Diver authorization with a specific depth authorization. Temporary or reciprocal authorization for visiting Scientific Divers may be granted in accordance with University and AAUS diving regulations. Divers must receive dive plan approval from UHDSP prior to conducting dives and report diving activity monthly to UHDSP.

UHDSP provides training courses on a periodic basis for University personnel who will utilize compressed gas diving in their research or educational activities. Course topics include diving methods for scientists, computer-assisted diving, enriched air nitrox diving, diver rescue, CPR, first aid, and oxygen administration. A diving equipment inspection program for equipment to be used under University jurisdiction is provided.

UHDSP compiles reports on University Scientific Diver activity and investigates accidents and complaints of unsafe conditions in connection to University-related diving.

### **Environmental Center**

Krauss Annex 19  
2500 Dole Street  
Honolulu, HI 96822  
Tel: (808) 956-7361  
Fax: (808) 956-3980  
Web: [www2.hawaii.edu/~envctr](http://www2.hawaii.edu/~envctr)

The Environmental Center, a unit of Water Resources Research Center, coordinates the education, research, and service efforts of the University relating to the maintenance, protection, and improvement of the environmental quality in Hawai'i and the adjacent marine environment. It is a conduit for the transfer of interdisciplinary academic and research expertise in environmental matters from the University to the government, with a particular regard for public review processes established within the state's Environmental Impact Statement (EIS) laws. Its research program is highly interdisciplinary and focuses on issues of particular importance to improving environmental management decisions in the Pacific. The center works closely with the U.S. Environmental Protection Agency as well as other federal and state agencies in Hawai'i on many of its research contracts. For information on the environmental studies major or certificate program, see the "Colleges of Arts and Sciences" section within this Catalog. For a list of research affiliates, see the "Instructional Support, Research, and Service Units Staff" section in the back of this *Catalog*.

### **External Affairs and University Relations**

Office of External Affairs and University Relations  
2444 Dole Street  
Bachman 109H  
Honolulu, HI 96822  
Tel: (808) 956-8109  
Fax: (808) 956-9701  
E-mail: [UR@hawaii.edu](mailto:UR@hawaii.edu)  
Web: [www.hawaii.edu/UR](http://www.hawaii.edu/UR)

External Affairs and University Relations promotes the image of and enhances support for the University of Hawai'i system through a wide range of public relations, marketing and communication services. Four units report to the Vice President for External Affairs and University Relations: Creative Services provides direct editorial and design support for communication via print and online publications, special

broadcast programs and other vehicles; Governmental Affairs serves as the liaison to state and federal lawmakers; Marketing and Branding is responsible for the development and implementation of an integrated identity and brand strategy for the University as well as monitoring of collegiate licensing; Public Relations and Special Events provides support to the University of Hawai'i system relating to national and international audiences, public affairs and events related to building support for the University and its activities. For information, call 956-8109, send mail to [ur@hawaii.edu](mailto:ur@hawaii.edu) or visit [www.hawaii.edu/ur](http://www.hawaii.edu/ur). The office also maintains the University's online events calendar in cooperation with Information Technology services; see <http://dbserver.its.hawaii.edu/calendar>.

### **Office of Faculty Development and Academic Support**

Kuykendall 106  
1733 Donaghho Road  
Honolulu, HI 96822  
Tel: (808) 956-8075  
Fax: (808) 956-9535  
Web: [www.ofdas.hawaii.edu](http://www.ofdas.hawaii.edu)

The Office of Faculty Development and Academic Support (OFDAS) provides general academic support and services in support of faculty and instructional development. OFDAS publishes *Teaching and Learning*, the Mānoa campus faculty development newsletter; provides leadership development workshops, seminars, and focus groups for department chairs; manages the Educational Improvement Fund (curriculum development grants); manages faculty and staff travel and development funds (instructional travel); supports faculty evaluation and development funds (professional development plans); supports departmental instructional and faculty development projects; coordinates faculty convocations, orientations, and honors ceremonies; maintains a faculty development resource and conference room (Kuykendall 106) available to faculty and departments; coordinates a faculty mentoring program; and provides direction and supervision for its subunit centers (Center for Teaching Excellence, Center for Instructional Support, and Faculty Mentoring and Leader Development Program).

### **Industrial Relations Center**

Sinclair 301  
2425 Campus Road  
Honolulu, HI 96822  
Tel: (808) 956-8132  
(808) 956-8165  
Fax: (808) 956-3609  
E-mail: [uhirc@hawaii.edu](mailto:uhirc@hawaii.edu)

The Industrial Relations Center (IRC) seeks to promote understanding of industrial relations and human resources development problems, techniques, and policies. Organized to facilitate University research and instruction in the disciplines and professions related to industrial relations, the center also serves labor, management, and the community as the link in a

continuing dialogue, reporting on changes in the field. The center maintains a library for information services and current publications; provides reference service; conducts conferences, lectures, and group discussions; and assists in the training of students and practitioners in the field. Research studies in industrial relations problems are conducted and published by the center.

### **Information Technology Services**

Help Desk Location: Keller Hall 105  
 Help Desk Tel: (808) 956-8883  
 Help Desk E-mail: help@hawaii.edu  
 Web: www.hawaii.edu/infotech  
 ITS Director Tel: (808) 956-3501  
 Fax: (808) 956-5025

Information Technology Services (ITS) provides support for academic computing, management information systems, networking, telephony, teleconferencing and distance learning technologies for the UH Mānoa campus and the UH system. ITS provides and supports a wide array of hardware, software, networks and services to meet these objectives. ITS' infrastructure includes central servers and services, local and wide area networks, a large voice communications system, and several statewide video and teleconferencing systems to provide distance education services. In addition, ITS develops, operates and maintains the University's institutional administrative information systems.

Specific ITS services include: electronic mail, Web hosting services, internet access, host-based software services, software site license programs, computer labs for students, a Digital Media Center for faculty, technical documentation, telephone services, voice mail, and a number of types of teleconferencing support. ITS also offers short courses and professional development activities for faculty and staff. All University students, faculty and staff can obtain access to the internet and UH computing resources through ITS. The ITS Help Desk provides technical support and a single point of contact for access to ITS services.

### **Office of International Affairs**

Physical Science Building 102-106  
 2565 McCarthy Mall  
 Honolulu, HI 96822  
 Tel: (808) 956-6940  
 Fax: (808) 956-5030  
 E-mail: oia@hawaii.edu

The Office of International Affairs (OIA) supports international education endeavors on behalf of students, scholars and faculty throughout the ten campuses of the University of Hawai'i. OIA oversees the University's more than 160 international agreements and exchanges with partner institutions, primarily in the Asia-Pacific region. Additionally, OIA assists departments in inviting international scholars, researchers and faculty; facilitates system-wide immigration processing; conducts monthly scholar orientation; and supports depart-

ments' international efforts through the dissemination of information. Finally, OIA serves as a center for the exchange of information and the coordination of system-wide international student recruitment.

### **Laboratory Animal Service**

Snyder 514  
 2538 McCarthy Mall  
 Honolulu, HI 96822  
 Tel: (808) 956-8770  
 Fax: (808) 956-4448

The Laboratory Animal Service (LAS) is the support unit responsible for administering the Animal Care and Use Program for vertebrate animals used in research, training and testing at the University of Hawai'i. In addition to administering the System-wide Animal Care and Use Program, LAS also operates biomedical animal research facilities on the UH, Mānoa campus. The Program administered through LAS is managed in accord with the *Guide for Care and Use of Laboratory Animals*, and in compliance with all federal, state, and local laws and regulations such as the Animal Welfare Regulations (AWR) and the National Institutes of Health Public Health Service (PHS) Policy on Humane Care and Use of Animals.

The AWR and PHS Policy require institutions to ensure that people caring for or using animals are qualified to do so. LAS provides instruction to UH investigators, staff, students, and visiting researchers on the humane care and use of animals. In addition, an occupational health and safety program is part of the System-wide Animal Care and Use Program.

The Institutional Animal Care and Use Committee (IACUC) is responsible for the oversight and evaluation of the Animal Care and Use Program and its components. The committee is composed of veterinarians, biological and non-biological scientists, and local community representatives, who review animal use protocols, inspect facilities, evaluate animal use programs, investigate concerns involving alleged noncompliance, and deal with issues concerning humane care and use of animals.

### **Harold L. Lyon Arboretum**

3860 Mānoa Road  
 Honolulu, HI 96822  
 Tel: (808) 988-0456  
 Fax: (808) 988-0462

The Harold L. Lyon Arboretum facilitates and conducts research, instruction, and public service in tropical biology and horticulture. Located on a 194-acre site in upper Mānoa valley are greenhouses, laboratories, classrooms, and an herbarium. The arboretum also houses living plant collections, comprising about 15,000 accessions that encompass more than 6,000 species, varieties, and cultivars. It is the only university arboretum in the U.S. located in a tropical rainforest, and it has one of the largest collections of palms of any botanical garden in the

world. Other major collections include tropical trees, heliconias, gingers, aroids, and tis. Emphasis is placed on native Hawaiian plants, including research on propagation and restoration of endangered species, on restoration of Hawaiian ecosystems, and on ethnobotany of the Hawaiian Islands. The arboretum sponsors and publishes the Harold L. Lyon Arboretum Lectures.

### **Spark M. Matsunaga Institute for Peace**

Saunders Hall 717  
2424 Maile Way  
Honolulu, HI 96822  
Tel: (808) 956-7427  
MIP Fax: (808) 956-5708  
PCR Fax: (808) 956-9121  
E-mail: uhip@hawaii.edu  
Web: www2.soc.hawaii.edu/peace

The Spark M. Matsunaga Institute for Peace is an academic community designed to develop and share knowledge about the conditions of peace and the use of nonviolent means for resolving conflicts. The institute is committed to improving education in peace studies; undertaking peace research and peace teaching; participating with community groups active in peace and conflict resolution; and publishing scholarly and creative works on peace in all media. The institute's programs include the Program on Conflict Resolution, engaged in the identification, prevention, and resolution of conflicts; the Program on Nonviolence, engaged in the research and practice of nonviolence; the UH Mediation Service, engaged in dispute resolution within the University community; and the Institute for Peace Resource Center, which contains a collection of peace and conflict resolution books, journals, and videos. The institute gives special attention to issues of peace in the Asia Pacific region. For further information on its educational programs, see the "Colleges of Arts and Sciences" section within this Catalog.

### **Pacific Biomedical Research Center**

Pacific Biomedical Research Center 215  
1993 East-West Road  
Honolulu, HI 96822  
Tel: (808) 956-7401  
Fax: (808) 956-4768

The Pacific Biomedical Research Center (PBRC) conducts interdisciplinary research in cellular, developmental and molecular biology; Hawaiian evolutionary biology and conservation; neuro-behavioral biology; retrovirology; biotechnology; molecular endocrinology; and pathobiology of the extracellular matrix. It maintains core facilities in molecular biology and electron microscopy; fosters undergraduate research for minority students (Minority Access to Research Careers, Minority Biomedical Research Support and National Science Foundation-Undergraduate Mentoring in Environ-

mental Biology); and maintains the Kewalo Marine Laboratory, the Békésy Laboratory of Neurobiology, the Retrovirology Research Laboratory, and the Center for Conservation Research and Training. The institute also supports, in collaboration with the John A. Burns School of Medicine (JABSOM), a series of programs supporting junior faculty research development. These programs include the Research Centers in Minority Institutions (RCMI) award, the Center for Clinical Research Excellence (CCRE) award, the Specialized Neuroscience Research Program (SNRP), and its separate AIDS-SNRP offshoot, specializing in neurological effects of HIV infection, also, a Center of Biomedical Research Excellence (COBRE) award. PBRC and JABSOM additionally collaborate with Kapi'olani Health Research Institute, to support a Clinical Research Center located at the Kapi'olani Medical Center for Women and Children. Finally, PBRC and JABSOM are cooperating in administration of a Biomedical Research Infrastructure Network (BRIN) award aimed to increase NIH funding for biomedical research carried out in Hawai'i.

### **Social Science Research Institute**

Saunders Hall 704  
2424 Maile Way  
Honolulu, HI 96822  
Tel: (808) 956-8930  
Fax: (808) 956-2884

The Social Science Research Institute (SSRI) serves as the sponsored research division of the College of Social Sciences. SSRI facilitates and supports interdisciplinary, applied research that addresses critical, social, environmental, and economic problems primarily in Hawai'i and the Asia Pacific region. This is done through collaboration with faculty and students throughout the University of Hawai'i and with other educational and research institutions, regional and international organizations, the private sector, and federal, state, and county agencies. It is supported largely by contracts and grants from public agencies and private organizations.

SSRI provides practical experience to students at the University of Hawai'i through involvement in research, planning, and training projects. SSRI's staff assists county, state, and federal agencies and local community groups in Hawai'i with training and technical assistance. SSRI is also working with instructional units to integrate SSRI's research efforts into courses offered at the University of Hawai'i.

The institute currently focuses on these areas: crime, drug abuse, youth problems, and poverty; resources, sustainable development, and futures research; telecommunication and information policy; culture, language and social problems; and health services and health policy. SSRI also cooperatively manages the UH Economic Research Organization (UHERO) with the Department of Economics and the Globalization Research Center, and the Office for Evaluation and Needs Assessment Services.

**University of Hawai‘i Press**

2840 Kolowalu Street  
 Honolulu, HI 96822  
 Tel: (808) 956-8257  
 Fax: (808) 988-6052

University of Hawai‘i Press publishes and distributes books and journals of high merit that reflect the regional or special interests and responsibilities of the University and other scholarly research organizations. All titles carry the imprint “University of Hawai‘i Press.” UH Press is a member of the Association of American University Presses, the Association of American Publishers, the Society for Scholarly Publishing, Hawai‘i Book Publishers Association, and the International Association of Scholarly Publishers. UH Press publishes books of regional interest, scholarly monographs, textbooks, and scholarly journals. (UH Press also operates a sales program—East-West Export Books—in Asia and the Pacific on behalf of American scholarly publishers.) Editorial control (final approval of manuscripts) is vested in a board made up of University of Hawai‘i faculty members appointed by the senior vice chancellor for academic affairs. Faculty members are encouraged to submit book-length manuscripts to the executive editor. Journal papers should be submitted to the editor-in-chief of the appropriate journal.

**Waikiki Aquarium**

2777 Kalākaua Avenue  
 Honolulu, HI 96815  
 Tel: (808) 923-9741  
 Fax: (808) 923-1771  
 E-mail: [webmaster@www.waquarium.hawaii.org](mailto:webmaster@www.waquarium.hawaii.org)  
 Web: [waquarium.mic.hawaii.edu/](http://www.waquarium.mic.hawaii.edu/)

Waikiki Aquarium displays more than 2,500 specimens representing over 400 vertebrate and invertebrate species. The

exhibits focus primarily on coral reefs and feature up-close experiences at the “Edge of the Reef” outdoor exhibit, educational talks about the Hawaiian Monk Seal, and other interpretive presentations. An audio tour provides additional information about exhibits. The Aquarium also offers a marine education program with classes, workshops, school tours, and a lecture series on marine science. Research activities include Coral propagation, shark biology, larval studies and the reproduction of cuttles and the chambered nautilus. The aquarium is open to the public from 9 a.m. to 4:30 p.m. daily, except Christmas.

**Water Resources Research Center**

Holmes 283  
 2540 Dole Street  
 Honolulu, HI 96822  
 Tel: (808) 956-7847  
 Fax: (808) 956-5044  
 Web: [www.wrrc.hawaii.edu](http://www.wrrc.hawaii.edu)

Water Resources Research Center (WRRC) conducts research on Hawai‘i’s water resources, assists and promotes instruction in water resources in several academic departments, provides training opportunities for engineers and scientists through research, and communicates research results to users. Interdisciplinary research is broadly based in physical and biological sciences, technology, ecology, and social sciences. The research encompasses hydrology and hydraulic engineering, geology, geophysics and geochemistry, microbiology, chemistry, zoology, oceanography, sanitary engineering and public health, climatology and soil physics, agricultural engineering and forestry, and socioeconomic and legal issues. WRRC operates laboratories and field research facilities. The Environmental Center, whose mission is to focus on ecological relationships, natural resources, and environmental quality, is administered by WRRC.