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ABOUT THE UNIVERSITY OF HAWAI‘I

The University of Hawai‘i is comprised of 10 campuses throughout the state of Hawai‘i. The University of Hawai‘i at Mānoa, the flagship campus, is located in Mānoa Valley on the island of O‘ahu. Founded in 1907 as a land-grant college of agriculture and mechanic arts, the College of Hawai‘i moved to its present location in 1912 and with the addition of the College of Arts and Sciences, the College of Hawai‘i became the University of Hawai‘i.

ACCREDITATION

The University of Hawai‘i at Mānoa is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges.

ABOUT THE DEPARTMENT OF PUBLIC HEALTH SCIENCES

In June 2000, the public health degree program was reorganized within the John A. Burns School of Medicine as the Office of Public Health Studies (OPHS). Within the OPHS, the public health academic program was placed under the Department of Public Health Sciences and Epidemiology, now known as the Department of Public Health Sciences (DPHS).

ACCREDITATION

The Council on Education for Public Health (CEPH) is the national accrediting body for schools and programs in public health. Following a review by a CEPH site team visit in 2014, our public health program was reaccredited for a seven-year term, extending to July 2022.

PUBLICATION

This publication was prepared to provide information and does not constitute a contract. The department reserves the right to change or delete, supplement, or otherwise amend at any time and without prior notice the information, requirements, and policies contained in this publication. This publication is also available on the department website at http://manoa.hawaii.edu/publichealth/.
VISION, MISSION, VALUES, GOALS AND OBJECTIVES

Program Vision Statement
Pono living, locally and globally.

Program Mission Statement
The mission of the Department of Public Health Sciences is to advance the health of the peoples of Hawai‘i, the nation, and the Asia-Pacific region through knowledge, discovery, innovation, engagement, inclusion, and leadership.

Program Value Statement
We value:
- Academic rigor and excellence
- Respect
- Equity
- Diversity
- Collaboration
- Ho’olohe (listening and responding to the needs of the community)

Education Goals and Objectives
1. To recruit and retain a diverse and qualified student body.
   - The average GPA for admitted students will meet the program’s requirement.
   - Admission standards for the MPH program will be maintained.
   - At least half of admitted students will have previous health experience.
   - We are committed to recruit and admit students from Hawai‘i.
   - We are committed to recruit and admit students from our priority populations.
   - Students will maintain favorable academic standing.
   - Students will complete their degrees within 2 years.

2. To offer required and electives courses and practicum experiences that facilitate student mastery of public health competencies and address the core values of the department.
   - Faculty will carry a full teaching load, unless offset by other academic activities.
   - Faculty will solicit student feedback on courses through the use of the University’s electronic Course and Faculty Evaluation system (eCAFE).
   - Fieldwork preceptors will complete the student evaluation form.
   - Exiting students will rate the program as excellent or good.
   - Exiting students will rate the quality of instruction as excellent or good.
   - Exiting students will rate faculty expertise as excellent or good.
   - Exiting students will rate access to faculty as excellent or good.
   - Exiting students will rate student involvement in governance as excellent or good.

3. To assure graduates master the core competencies of their degree.
   - Every three years, all core and specialization competencies will be reviewed and amended as necessary.
   - Alumni will agree or strongly agree that their degree coursework facilitated mastery of public health competencies.

4. To offer a broad variety of public health practicum opportunities focused on Hawai‘i, the Pacific, Asia and Indigenous peoples.
   - The program will have active Memorandums of Agreement (MOAs) with practicum sites located in Hawai‘i, the Pacific, Asia, or with Indigenous communities.
Research Goals and Objectives
1. To discover and create new knowledge, evaluate health services needs and apply research with an emphasis on Hawaii, the Pacific, Asia, and Indigenous peoples.
   • Program faculty will secure research dollars in extramural funding.
   • Tenure track faculty will serve as either Principal Investigator (PI), Co-PI, or Co-Investigator on an extramurally funded research project.

2. To disseminate research findings through publications and participation in local, national and professional societies.
   • Program faculty will publish a mean of three peer-reviewed papers per year per FTE.
   • Full-time instructional faculty will present at a national or international meeting at least once per year.
   • Full-time faculty will present to a local public health audience one or more times per year.

3. To involve students as active participants in research and evaluation projects.
   • Students will participate in research as evidenced by a GA position, abstract or publication.
   • At least one student per year will be supported by the Elmer J. Anderson travel award.

Service Goals and Objectives
1. To be an active partner in providing continuing education to the public health workforce in Hawai‘i.
   • Every three years, the program will conduct a community needs assessment to assess local training and service needs.
   • The program will provide or partner in the provision of at least three trainings annually to the local public health community.

2. To provide consultative and direct services to community, state, federal and international organizations in support of the program’s mission.
   • Faculty will provide professional service for one or more national or international society or organization annually.
   • Faculty will provide service to a local public health society or agency annually.
**Program-wide Goals and Objectives**

1. To ensure academic excellence by systematically evaluating the program and incorporating findings in program development.
   - A Report on Evaluation Indicators (REI) will be collected annually and reported on at a monthly faculty meeting.
   - The program faculty will review any indicator not meeting the target for two or more years and create an action plan for improvement.

2. To ensure academic excellence by garnering adequate resources for delivery of a quality public health program.
   - The program will ensure a favorable graduate student to faculty ratio.
   - The program will maintain favorable salary offset per FTE faculty.
   - The majority of exiting students will rate space/facilities as excellent or good.
   - The majority of exiting students will rate academic advising as excellent or good.
   - The majority of exiting students will rate administrative support as excellent or good.

3. To improve the abilities of faculty, staff and students to work with diverse populations.
   - The program will offer at least one training session annually on working with diverse populations.
   - Half of program faculty will be from an ethnic minority.
   - Half of program faculty will be female.
   - Half of program faculty in leadership positions will be female.
   - Half of program staff will be from an ethnic minority.

**Diversity Plan Goals**

1. Cultivate and sustain a diverse and multicultural student body that is reflective of Hawai’i’s communities by recruiting, retaining, and graduating ethnic minority students that are under-represented in higher education.
2. Encourage and monitor the recruitment of women and minority faculty at all levels, including leadership positions, consistent with the available pool.
3. Provide a supportive and nurturing learning environment to prepare students to collaborate with diverse communities in Hawaii, the nation, and the Asia-Pacific region in culturally sensitive manner.
4. Cultivate a supportive environment for diversity including the scholarly dialogue on diversity.
THE ACADEMIC PROGRAM

Bachelor’s Degree

The Bachelor of Arts degree program with a major in public health is designed to educate undergraduate students who are interested in public health and/or health profession training in the basic concepts of public health education, practice, and research.

Master’s Degrees

The Master of Public Health (MPH) degree program provides individuals with a broad background for professional practice in the field of public health at state, national, and international levels.

The Master of Science (MS) degree program provides students with a research-oriented education in a specialty area within the broad field of public health.

All master’s degree students are required to select one area of specialization. The department currently offers the MPH degree with a specialization in epidemiology, health policy and management, Native Hawaiian and Indigenous health, and social and behavioral health sciences, and the MS degree with a specialization in epidemiology and social and behavioral health sciences.

Doctoral Degrees

The Doctor of Public Health (DrPH) program will prepare students to lead programs and conduct independent investigations addressing public health topics relevant to culturally diverse groups, with a special focus on those in the state of Hawai‘i and the Asia-Pacific region. The DrPH focuses on translational research, and emphasizes community-based participatory research methodologies, reflecting our commitment to working in partnership with people and communities to recognize, quantify, and reduce health disparities.

The Doctor of Philosophy (PhD) program in epidemiology will prepare students to teach in academic and other settings, conduct independent and collaborative epidemiologic research, and provide consultative services to academic, not-for-profit, governmental, and private organizations.

Laptop Initiative

Universal computing is integrated in public health courses. This means that students in graduate classes should have software and Internet resources at their fingertips during and between instructional times. Instructors can incorporate new learning methodologies, Internet, research etc. in any classroom. Universal computing also improves and increases communication access with fellow students and faculty.

This initiative requires that students enrolled in our graduate programs bring a laptop computer to class (or as directed by instructors). The following software is required:

Office Software Suite (word processor, spreadsheet, presentations)
Adobe Acrobat Reader
Firefox (or alternate web browser)
EndNote
Statistical Software

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<tr>
<th>SAS</th>
<th>SPSS</th>
<th>STATA</th>
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<tr>
<td>Epidemiology</td>
<td>Social and Behavioral Health Sciences, DrPH</td>
<td>Native Hawaiian and Indigenous Health</td>
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ABOUT THE MAJOR

The primary focus of public health education is to improve health and quality of life through population-based prevention and treatment of disease and other physical and mental health conditions, through surveillance of cases and the promotion of healthy behaviors.

A total of 36 major credits (45 credits with public health related courses) are required to graduate with a bachelor of art (BA) degree in public health. Detailed information on the major, including admission requirements is available at [http:// manoa.hawaii.edu/publichealth/degrees/undergraduate/sample] and in the *University of Hawai‘i at Mānoa Catalog*. 
MASTER’S DEGREE PROGRAMS AND SPECIALIZATIONS

EPIDEMIOLOGY
Specialization Head: Andrew Grandinetti, PhD, (808) 956-7495
Email: andrewg@hawaii.edu

Overview
Epidemiology is the study of the distributions and determinants of health-related events in human populations. A basic tenet of epidemiology is that diseases are not randomly distributed in the population. Determining the prevalence and risk factors associated with these events, as well as measuring the magnitude of such occurrences, is the basis of public health action. An essential part of this determination involves the utilization of epidemiologic and biostatistical methods to evaluate the effectiveness of disease control measures.

Students enrolled in the epidemiology specialization are required to take advanced level training in chronic and infectious disease epidemiology, advanced biostatistics, and research design. There is opportunity for students to choose from epidemiology electives in the following areas: infectious diseases, nutrition, genetics, environment, aging, HIV/AIDS, cancer, and cardiovascular diseases. Course work in specialized statistical applications is also available. Students participate in on-going epidemiological research programs throughout the UH Mānoa system or community during their field practicum assignment.

Degree Programs Offered

Master of Public Health (MPH)

MPH students specializing in epidemiology gain knowledge and skills in epidemiologic methods, biostatistics, the collection and analysis of epidemiologic data, and the epidemiology of chronic and infectious diseases. The first semester focuses on a core of required basic and public health offerings that cover such topics such as environmental health, health care delivery and organization, health education, and health behavior. The courses provide background and breadth in public health. The remainder of the program includes advanced and elective course work designated by the student’s committee to meet the student’s professional goals. In order for students to develop skills and document competencies in public health, the development and completion of an epidemiologic study in a public health setting (i.e., a field practicum) is also required. During the final semester, a capstone paper and public presentation based on the practicum integrates a student’s MPH experience.

The MPH degree program generally requires two academic years of full-time study and the required number of credits for graduation is 42. A minimum of 18 credits must be earned in courses numbered 600-798, including at least one graduate seminar in the major or a related field. No more than 9 credits of PH 699 (directed reading/research) may be applied to meet the degree requirements. Please note that the precise degree requirements for each student will be determined in consultation with his/her advisor and program committee members.

Students with a professional interest in epidemiology should pursue the master of public health (MPH) degree.

Master of Science (MS)

The MS (Thesis, Plan A) degree program generally requires two academic years of full-time study. A minimum of 32 credit hours is required, which must include 18 credits of course work between 6 to 12 hours of thesis research (PH 700). A minimum of 12 credits must be earned in courses numbered 600-798 (excluding 699 and 700), including at least one graduate seminar in the major or a related field. No more than 12 credits (combined total) of PH 699 (directed reading/ research) and PH 700 (thesis research) may be applied to meet these minimum requirements. Candidates must complete a thesis as well as a final oral examination. Please note that the precise degree requirements for each student will be determined in consultation with his/her advisor and thesis committee members.

Students whose objective is research or doctoral study are expected to select the MS Plan A thesis degree program.
Qualifications for Admission

In addition to meeting the general admissions requirements of the University’s Office of Graduate Education, individuals applying to the epidemiology specialization will be expected to have the academic background, experience, interests and commitment for professional training in this field. While no specific undergraduate major is specified, candidates should have one year of course work in a biological science, chemistry, and at least one semester of calculus is recommended. Applicants must also have computer skills in word processing, spreadsheet construction, and Internet applications. Experience in an applied health-related field or biomedical research is preferred.
HEALTH POLICY AND MANAGEMENT

Specialization Head: Tetine Sentell, PhD (808) 956-5781
Email: t.sentell@hawaii.edu

Overview

The challenge of delivering high quality, cost effective health care and developing public policies that maintain health is becoming increasingly complex as the trend towards globalization permeates all living and man-made systems. The demand for highly skilled policy makers, managers, and global health specialists has never been higher which has resulted in health policy and management (HPM) being on of the fastest growing and exciting fields in our country today.

The mission of the HPM graduate program is to promote and protect the public's health through the preparation of graduates for careers leading toward senior level leadership in health services policy and management, and to conduct research and disseminate knowledge that will advance the organization, financing, and delivery of health services. The program focuses on culturally diverse groups and communities, especially those in the state of Hawai‘i and the Asia-Pacific region.

Degree Program Offered

Master of Public Health (MPH)

The MPH degree in HPM prepares students for a professional career in health services, policy, and management. All MPH students complete the core public health coursework, an integrative seminar, a field practicum, a final scholarly capstone paper, and an oral capstone examination. In addition, students complete the following HPM courses: 1) PH 641 Introduction to Health Policy; 2) PH 765 Program Evaluation; 3) PH 672 Leading and Managing Health Programs; 4) PH 626 Health Economics; and 5) PH 677 Managing Global Health Service Delivery.

The MPH degree program generally requires two academic years of full-time study and the required number of credits for graduation is 42. A minimum of 18 credits must be earned in courses numbered 600-798, including at least one graduate seminar in the major or a related field. No more than 9 credits of PH 699 (directed reading/research) may be applied to meet the degree requirements. Please note that the precise degree requirements for each student will be determined in consultation with his/her advisor and program committee members.

Qualifications for Admission

Health policy and management applicants must meet the Office of Graduate Education’s admission requirements. Preference may be given to students with training in health, administration, economics, human services or social science. Work experience in health care or human services is preferred, but not required.
NATIVE HAWAIIAN AND INDIGENOUS HEALTH

Overview

Indigenous communities, peoples and nations are defined as having a historical continuity with pre-invasion and pre-colonial societies that developed on their territories, consider themselves distinct from other sectors of the societies now prevailing on those territories, or parts of them (The United Nations Permanent Forum on Indigenous Issues Working Group). At present, they form non-dominant sectors of society and remain determined to preserve, develop and transmit their ancestral territories and ethnic identity to future generations, as the basis of their continued existence as peoples, in accordance with their own cultural patterns, social institutions and legal systems.

The Native Hawaiian and Indigenous health (NHIH) specialization is designed to provide students with skills and training necessary to serve Indigenous peoples and to assist in addressing their health and wellness needs. Indigenous peoples throughout the world experience grave health and socioeconomic disparities. Many of these inequities result from historical national and local policies designed to eliminate and/or assimilate Indigenous peoples. Knowledge of history, policy, social determinants of health, and ethics is essential to address and eliminate the inequities experienced by Indigenous peoples.

Degree Program Offered

Master of Public Health (MPH)

The NHIH specialization will prepare students for leadership roles in Indigenous health policy, culturally safe health services, and Indigenous health promotion. Graduates will better meet the social and cultural needs of Indigenous people, thereby enhancing the quality and effectiveness of health services, policies, and health promotion. The improved quality and effectiveness of Indigenous health services contributes to the reduction of Indigenous health disparities and the improvement of Indigenous peoples’ health.

Students enrolled in the NHIH specialization are required to take advanced level training in Indigenous health policy, ethics and research design. Students have opportunities to choose from Native Hawaiian and Indigenous Health electives in many areas across the campus. Students will participate in on-going research or public health programs with Indigenous communities through the required practicum experience.

For MPH students specializing in NHIH, the following course work is required: 1) Indigenous Health Seminar; 2) Health Ethics, Law and Politics; 3) Advanced Native Hawaiian Health Determinants; 4) Community Engaged Research & Practice; 5) Indigenous Peoples’ Food Systems, Environment & Health; 6) and 7) Integrative Seminar. The first semester focuses on public health core requirements and in subsequent semesters, students take required and elective course work to meet the NHIH competencies, as well as the student’s professional goals. Students in the NHIH specialization will be required to have access to STATA (www.stata.com), a statistical software package which will allow for larger data set analysis. A 240-hour field practicum is required which allows students to apply knowledge and skills in a community public health setting. During their final semester, students will prepare a report on their practicum experience, complete a research-intensive final paper, and deliver a public presentation to demonstrate mastery of program competencies and to present their capstone findings. The capstone includes a final oral examination where students demonstrate mastery of program competencies and integration of specialization knowledge. A student-selected advisor and program committee guides the student’s course of study, practicum experience, capstone, and research paper.

The MPH generally requires two academic years of full-time study and 42 credits for graduation. A minimum of 18 credits must be earned in courses numbered 600-798, including at least one graduate seminar in the major or related field. No more than 9 credits of PH 699 may be applied to meet degree requirements. The precise degree requirements for each student will be determined in consultation with his/her advisor and program committee members.
Qualifications for Admission

In addition to meeting the general admission requirements of the University’s Office of Graduate Education, individuals applying to the NHIH specialization are expected to have the academic background, experience, interest, and commitment for professional training in public health. While no specific undergraduate major is specified, candidates should have completed course work in the social sciences or humanities such as mathematics or statistics, public policy or political science, and psychology or sociology. Applicants must also have computer skills in word processing, spreadsheet construction, and Internet applications. Experience in an applied health/social sciences field or in health/social sciences research which serves an Indigenous population is preferred.
SOCIAL AND BEHAVIORAL HEALTH SCIENCES

Specialization Head: Claudio R. Nigg, PhD, (808) 956-2862
Email: cnigg@hawaii.edu

Overview

Over the last century, chronic diseases have replaced infectious diseases as the leading causes of death and, despite advances in medicine and technology, health disparities are increasing in almost every country. Unhealthy lifestyle behaviors such as tobacco use, lack of physical activity, poor nutrition, unsafe sexual practices, substance abuse, and overexposure to the sun are major contributors to disability and death. Social factors, such as discrimination, poverty, dangerous living and working environments, and unequal distribution of resources (including health care resources), also affect health status. In this program, students will examine a) behavioral and social theories in health promotion; b) behavioral, social, environmental, and political interventions that can promote health theories in health promotion; and c) skills required for assessing health problems and for planning and evaluating health programs. Course assignments provide students the opportunity to apply knowledge, to practice skills, to enhance computer literacy, and to improve oral and written communications. Opportunities to participate in university-based and community-based research and service programs are provided.

Degree Programs Offered

Master of Public Health (MPH)

MPH students specializing in socials and behavioral health sciences (SBHS) gain knowledge and skills in public health research methods, biostatistics, theories of health behavior change, needs assessment, planning, and evaluation. The first semester focuses on public health core requirements. In subsequent semesters, students take required and elective course work to meet the SBHS competencies, as well as the student’s professional goals. A 240-hour field practicum is required which allows the student to apply knowledge and skills in a community public health setting. During the final semester, students complete an integrative seminar, prepare a capstone paper, and deliver a public presentation as a demonstration of mastery of program competencies and integration of classroom knowledge and field experience. A student-selected advisor and program committee guides the student's course of study, practicum experience, and capstone.

The MPH generally requires two academic years of full-time study. The required number of credits for graduation is 42. A minimum of 18 credits must be earned in courses numbered 600-798, including at least one graduate seminar in the major or related field. No more than 9 credits of PH 699 may be applied to meet degree requirements. Please note that the precise degree requirements for each student will be determined in consultation with his/her advisor and program committee members.

Qualifications for Admission

In addition to meeting the general admissions requirements of the University’s Office of Graduate Education, individuals applying to the SBHS specialization will be expected to have the academic background, experience, interests, and commitment for professional training in public health. While no specific undergraduate major is specified, candidates should have course work in mathematics or statistics, biology or human development, and sociology or psychology. Applicants must have computer skills in word processing, spreadsheet construction, and Internet applications. Experience in an applied health/social sciences field or in health/social sciences research is preferred.
DOCTORAL DEGREE PROGRAMS AND SPECIALIZATIONS

COMMUNITY-BASED AND TRANSLATIONAL RESEARCH

Graduate Chair: Kathryn L. Braun, DrPH, (808) 956-5768
Email: kbraun@hawaii.edu

Overview

Translational research is the investigation of how to successfully transform scientific discoveries arising from laboratory, clinical, or population studies into community applications to reduce incidence, morbidity, and mortality. Community-based participatory research (CBPR) in health is a collaborative approach to research that equitably involves investigators and members of the community in the research process and recognizes the unique strengths that each brings. This approach increases the likelihood that interventions will be embraced by the community and that community members will gain knowledge, skills, and other benefits from the research.

Degree Program Offered

Doctor of Public Health (DrPH)

The DrPH program specializing in community-based and translational research prepares students to lead programs and conduct independent investigations addressing public health topics relevant to culturally diverse groups and communities, with a special focus on those in the state of Hawai‘i and the Asia-Pacific region.

All DrPH students complete doctoral seminars, course work in biostatistics and research methods, and mentored teaching and research practica. We use the three-paper dissertation format, reinforcing expectations that DrPH students gain qualitative and quantitative skills, publish their work in peer-reviewed journals, and present at national and international forums.

Candidates who successfully complete the DrPH program will be able to collaborate with community partners to identify and address public health issues, conduct independent research, and train public health workers. They will demonstrate expertise in health disparities, cultural competency, evidence-based public health practice, and community-based participatory research.

It is expected that students accrue 40 or more credits prior to graduation from the DrPH program.

Qualifications for Admission

In addition to meeting the general admission requirements of the University’s Office of Graduate Education, individuals applying to the DrPH program must have either a master’s degree in public health or a graduate degree in an allied profession.
## REQUIRED COURSE WORK FOR THE DrPH DEGREE PROGRAM

<table>
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<tr>
<th>Courses</th>
<th>Credits</th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>PH 602 Introduction to Health Services</td>
<td>3</td>
<td>X</td>
<td></td>
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<tr>
<td>PH 623 Social Science and Public Health</td>
<td>3</td>
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<tr>
<td>PH 655 Biostatistics I</td>
<td>3</td>
<td>X</td>
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<tr>
<td>PH 663 Principles of Epidemiology I</td>
<td>3</td>
<td></td>
<td>X</td>
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<tr>
<td>PH 681 Environmental Determinants of Health</td>
<td>3</td>
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<td>X</td>
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<tr>
<td>PH 641 Introduction to Health Policy</td>
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<th>Required Courses (restricted to DrPH students)</th>
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<tr>
<td>PH 770B Domestic &amp; Global Health Disparities</td>
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<tr>
<td>PH 770C Research Methods in Health Disparities</td>
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<tr>
<td>PH 770D Evidence-Based Programs in Global Health &amp; Health Disparities</td>
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<tr>
<td>PH 770E Topics in Health Disparities and Policy</td>
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<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 771 Teaching Practicum</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 772 Research Practicum</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 800 Dissertation Research</td>
<td>1</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Required Courses (not restricted to DrPH students)</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 630 Cultural Competency in Health Care</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 626 Health Economics</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 669 Epidemiological Study Design Critique</td>
<td>2</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PH 704 Community-Based Participatory Research</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 765 Program Evaluation</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Qualitative Research</td>
<td>3</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Multivariate and Quantitative Methods</td>
<td>3</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Other research methods and biostatistics courses</td>
<td>3</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Grand Total</td>
<td>A minimum of 42 credits is recommended</td>
<td>30*</td>
<td></td>
</tr>
</tbody>
</table>
**EPIDEMIOLOGY**

Graduate Chair: Eric Hurwitz, PhD, (808) 956-7425  
Email: hurwitz@hawaii.edu

**Overview**

The PhD in epidemiology is comprised of graduate faculty from the Department of Public Health Sciences, University of Hawai‘i Cancer Center, Department of Tropical Medicine, Medical Microbiology and Pharmacology, Department of Microbiology, and the Pacific Basin Research Center, thereby providing a diverse opportunity for those interested in pursuing a PhD in epidemiology.

**Degree Program Offered**

**PhD in Epidemiology**

Candidates who successfully complete the doctoral program in epidemiology will be prepared to teach in academic and other settings, conduct independent and collaborative epidemiologic research, and provide consultative services to academic, not-for-profit, governmental, and private organizations.

**Qualifications for Admission**

Although applicants to the PhD program are not required to have a master's degree in epidemiology or a closely related field, all applicants are expected to have a master's degree and a strong background in the natural and/or social sciences. The program encourages applications from candidates who are committed to epidemiologic research and practice, and have past research and related work experience. Applicants should also have well-focused research interests and career goals. A prospective epidemiology applicant is expected to communicate with a faculty member in his/her area of interest or with the program's chair, and must be accepted as an applicant by a faculty member prior to seeking admission. The faculty member involved will serve as the advisor upon the individual’s admission into the PhD program.
## REQUIRED COURSE WORK FOR THE PhD DEGREE PROGRAM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Pre-requisite Courses (for those without an MPH or MS degree in epidemiology or biostatistics)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PH 600 Public Health Foundations</td>
<td>3</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>PH 655 Biostatistics I</td>
<td>3</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>PH 656 Biostatistics II</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 658 Computer Applications in Public Health</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 663 Principles of Epidemiology I</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 664 Principles of Epidemiology II</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 747 Statistical Methods in Epidemiological Research</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Required PhD Courses</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>PH 665 Concepts of Immunology &amp; Immunopathogenesis</td>
<td>2</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>PH 669 Epidemiological Study Design Critique</td>
<td>2</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PH 748 Chronic Disease Epidemiology</td>
<td>3</td>
<td></td>
<td>X</td>
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<tr>
<td>PH 771 Teaching Practicum</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 772 Research Practicum</td>
<td>3</td>
<td></td>
<td>X</td>
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<tr>
<td>PH 800 Dissertation Research</td>
<td>1</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Elective Courses</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PH 647 Analytic Approaches to MCH</td>
<td>3</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>PH 651 Introduction to Human Population</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 652 Interdisciplinary Seminar</td>
<td>1</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 666 Seminar in Infectious Disease Control</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 667 Infectious Disease Micro II</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 689 Nutritional Epidemiology</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PH 690 Global Health Challenges</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 692 Clinical Epidemiology</td>
<td>2</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 751 Social Epidemiology</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 753 Survival Analysis</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 754 Neuroepidemiology</td>
<td>3</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>PH 792 Current Issues and Topics in Epidemiology (E) and Biostatistics (B)**</td>
<td>3</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>PH 794 Exploration in Epidemiology (E) and Biostatistics (B)***</td>
<td>2-3</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Courses outside Public Health Sciences</td>
<td>9</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Grand Total</td>
<td>A minimum of 30 credits is required</td>
<td>30*</td>
<td></td>
</tr>
</tbody>
</table>

*AThe minimum number of credits for students who do not have an MPH or MS in Epidemiology or Biostatistics is 30 credits plus the number of credits associated with missing prerequisites.

**Course topics include systematic reviews and meta analysis and issues in clinical epidemiology, among others.

***Course topics include longitudinal data analysis, genetic epidemiology, field methods in epidemiology, and measurement error and reliability in epidemiological research, among others.

^Students may select up to 9 credits outside Public Health Sciences with the approval of the academic advisor.
APPLICATION AND ADMISSION REQUIREMENTS

The Department of Public Health Sciences degree programs, like all other University graduate degree programs, operate within the broad policies and specific regulations established by the Office of Graduate Education. Accordingly, certificate, master’s and doctoral degree candidates should inform themselves of all applicable academic requirements in the current University of Hawai‘i at Mānoa Catalog. The Catalog is available online at [http://www.catalog.hawaii.edu](http://www.catalog.hawaii.edu) or may be purchased at the University Bookstore. Regulations and procedures governing admission to the Office of Graduate Education at the University of Hawai‘i are subject to change without prior notice. Please consult the most current Catalog before applying for admission.

Admission Requirements for the Bachelor’s Degree Program

Undergraduate students applying to UH Mānoa may declare public health as their major upon entry. Requirements for admission are described in the “Undergraduate Education” section of the Catalog.

For concurrent UH Mānoa undergraduate students seeking a concurrent degree in public health, the requirements for admission include the completion of PH 201 Introduction to Public Health with a B- or better, a minimum cumulative GPA of 3.25, meeting with a public health academic advisor, and an approved Concurrent Undergraduate Degree Application.

Current UH Mānoa undergraduate students who wish to change their major to public health must first complete PH 201 Introduction to Public Health with a B- or better and meet with a public health academic advisor before filing a Major Declaration Form.

Admission Requirements for Master’s Degree

An applicant for admission to the master’s degree or graduate certificate program must hold or expect to hold a bachelor’s degree from an accredited U.S. college or university or its equivalent from a recognized institution of higher learning (visit the Office of Graduate Education website at [http://manoa.hawaii.edu/graduate/content/admissions-requirements](http://manoa.hawaii.edu/graduate/content/admissions-requirements) for detailed information). The standards of the degree in question must be equivalent in both the distribution of academic subject matter and the scholarship achievement requirements to those maintained at the University of Hawai‘i. Professional degrees, such as the MS, DVM, and DDS, that are equivalent in depth to a U.S. bachelor’s degree also qualify an applicant for consideration.

At a minimum, all applicants need to demonstrate above average academic performance (B average or its equivalent) for his or her undergraduate course work and for any post-baccalaureate or graduate course work.

Admissions Requirements for the Doctoral Degree Program

Applicants to the DrPH program must have either a master’s degree in public health or a graduate degree in an allied medical profession.

Applicants to the PhD in epidemiology must have a master’s degree and a strong background in the natural and/or social sciences.

At a minimum, doctoral degree applicants must demonstrate above average academic performance (B average or its equivalent) for his or her undergraduate course work and for any post-baccalaureate or graduate course work.
**Documentation for Admission to the Master’s and Doctoral Degree Programs**

All applicants must submit the following (see Application Requirements below for specific instructions):

1. Completed Graduate Admissions application
2. Completed Department of Public Health Sciences application
3. Statement of objectives
4. Application fee
5. Official transcript from each post-secondary institution attended
6. Official Graduate Record Examination (GRE) General Test score
7. Three letters of recommendation and three letters of recommendation forms*

*Students seeking admission to the NHIH specialization must have one of their recommendation letters from an Indigenous Community. Please contact the NHIH specialization head if clarification is needed.

In addition, select applicants may be required to submit the following:

- Residency Declaration Form (for applicants claiming Hawai’i residency for tuition purposes)
- Official TOEFL or IELTS scores for applicants whose native language is not English
- Confidential Financial Statement form (international applicants)
- Writing sample that demonstrates aptitude for scholarly writing (DrPH applicants only)

**Selection and Notification**

Completed applications are reviewed by the department faculty in January for fall admission. An admission decision is generally reached through comparison of the relative merits of all applicants and the availability of faculty to guide the student in his/her area of interest. Selection is made without regard to the applicant’s age, sex, race, creed, or national origin.

Recommendations for admission are made by the department to the Office of Graduate Education who makes the final admission decision. The Office of Graduate Education notifies each applicant of the decision on the application. Official notification of acceptance or denial is by mail only and the admissions decision letter is generally mailed between March and June, depending on when the application was completed and when the decision was reached. Incomplete applications are not considered for admission. Applicants should receive a formal notice of acceptance from the Office of Graduate Education before coming to Hawai’i.
Application Requirements

Applicants should note that application materials must be submitted to two (2) separate offices.

The following should be sent directly to:
Office of Graduate Education
University of Hawai‘i at Mānoa
2540 Maile Way, Spalding 354
Honolulu, HI 96822

1. Graduate admissions application (also available for completion/submission online at [http://www.sis.hawaii.edu/apply](http://www.sis.hawaii.edu/apply));
2. Application fee;
3. Official transcript(s) sent directly from each institution attended;
4. Graduate Record Examination (GRE) General Test scores;
5. International applicants must also submit:
   - Test of English as a Foreign Language (TOEFL) or IELTS;
6. Complete information on financial status

The Office of Graduate Education Student Services Office sends notification of graduate admissions application receipt and status by email or by mail. Therefore, applicants should be sure to provide a valid email and/or mailing address on their application. Applicants who do not receive a notification within 30 days of submitting their graduate admissions application should contact their office at graduate.education@hawaii.edu.

The following documents should be submitted via mail to:
Office of Public Health Student Academic Services
Department of Public Health Sciences
University of Hawai‘i at Mānoa
1960 East West Road, Biomed D-204
Honolulu, HI 96822

1. Department of Public Health Sciences application
2. Statement of objectives
3. Three (3) letters of recommendation and three (3) letter of recommendation forms. Letters should be mailed to our office with the recommender’s signature across the seal of the envelope. (NHIH applicants must submit one letter from Indigenous community in which the applicant has an established history of service.)

DrPH applicants must also submit:
4. Writing sample that demonstrates aptitude for scholarly writing

The Office of Public Health Student Academic Services (OPHSAS) will send an email to applicants informing them of receipt of their department application and documents and will send out another email once their application is complete and ready for faculty review. An application is considered complete when OPHSAS receives the applicant’s file from the Office of Graduate Education and when all department materials have been received. Note: it is the applicant’s responsibility to ensure that all application materials have been submitted and received by each respective office.

Applications and all supporting documents must be received by the deadline. Arrangements to take the GRE and TOEFL, if required, should be made well in advance of the application deadline so that the scores are received by the application deadline.

After December 1, interested applicants are advised to contact the program to ascertain whether space is available in their selected area of specialization before submitting an application.
Spring Applications

The master's degree programs (MPH and MS) and doctoral programs (DrPH and PhD) do not offer spring admission.

Application Fee

Applicants are required to submit an application fee of $100. No application fee waivers or deferments are granted.

Applicants may pay by credit card, check, or money order. Payment by check or money order must be in U.S. dollars, drawn on a U.S. bank, and made payable to the “University of Hawai‘i”. Include your full name and data of birth on the check or money order. Do not send cash. The application fee is nonrefundable and nontransferable. Applications that are submitted without an application fee will not be processed.

Writing Sample

DrPH applicants must submit a writing sample that demonstrates aptitude for scholarly writing (e.g., literature review; a report of a needs assessment or evaluation project, a master’s thesis, or a published article on a public health topic [not slide shows or case notes]). If no examples of the applicant’s academic or scholarly writing are currently available, the applicant should write a paper as though he/she would submit it for publication in a professional journal. The writing sample should:

• Demonstrate conceptual and analytic skills
• Use appropriate and consistent citation and referencing format
• Demonstrate writing ability

Graduate Record Examination (GRE)

The GRE General Test is required for all applicants. Both the score and the percentile on each of the verbal, quantitative, and analytic sections of the examination will be evaluated. The GRE General Test may be waived for applicants to the master’s degree program if the applicant has an advanced degree (e.g., master, doctoral, or professional degree) from an accredited U.S. institution. A written request to waive the GRE must be submitted by the applicant. Requests to waive the GRE requirement should be made early in the application process to ensure that there is no delay in the application review if the request is denied. The waiver request must accompany the department’s application and the applicant’s resume must be included.

The GRE General Test is required for all doctoral applicants (no test waivers or substitutions).

The GRE should be taken at least one month prior to the application deadline. GRE scores that are more than five years old and/or photocopies of the Examinee Score Report are not acceptable.

Please direct ETS to forward official GRE scores to the university (Institution Code: 4867; Department Code: 0616)

Test of English as a Foreign Language (TOEFL)

Most applicants whose native language is not English are required to take the TOEFL. An applicant is exempt from the test if he or she has earned a bachelor’s or advanced degree within the last five years at a regionally accredited or recognized institution in the United States, Australia, Canada, New Zealand, Singapore, or United Kingdom.

Applications for admission will not be processed until official TOEFL results have been received. TOEFL scores that are more than two years old and/or photocopies of the Examinee Score Report are not acceptable. The minimum acceptable TOEFL score for master’s degree applicants is 79-80 and 100 for doctoral degree applicants. Direct ETS to forward the official TOEFL score report to the Office of Graduate Education, University of Hawai‘i (Institution Code: 4867; Department Code: 50).

International English Language Testing System (IELTS) score reports may be submitted in lieu of the TOEFL. An IELTS overall score of 6 or higher is required for master’s degree applicants and a score of 7 or higher is required for doctoral degree applicants.
English Language Institute (ELI)

The ELI program is only for students admitted to a degree program at the University of Hawai‘i. Prior to registration, all non-native speakers of English must be evaluated by the institute. Based on this evaluation, the ELI provides suitable instruction for those whose English fails to meet the standards determined by the University to be sufficient for the pursuit of full-time studies. Students in ELI training take a reduced academic load and should expect to make proportionately slower progress in regular University studies. This should be carefully considered by students whose time or financial support is limited.

Transcripts

A current official transcript from each college or university attended (including any study abroad or exchange programs, summer programs, non-degree work and extension programs) must be submitted to the Office of Graduate Education. Official transcripts must be sent directly from the issuing institution to the Office of Graduate Education. If submitting with your application, transcripts must be received in institution-sealed envelopes. Official transcripts are original documents issued by the college or university that bear the actual signature of the registrar in ink and the embossed seal or official stamp of the issuing institution. Applicants who are still in U.S. undergraduate programs must submit transcripts after the first quarter or semester of their senior year.

International Transcripts and Academic Records

All international applicants are required to submit one transcript or academic record from each institution of higher education attended, including any study abroad or exchange programs, summer programs, and non-degree work and extension programs. Official transcripts must be sent directly from the issuing institution to the Office of Graduate Education. If submitting with your application, transcripts must be received in institution-sealed envelopes. See [http://manoa.hawaii.edu/graduate/content/admissions-requirements](http://manoa.hawaii.edu/graduate/content/admissions-requirements) for details.

Financial Statement

International applicants need to show proof of sufficient funding to cover all educational and living expenses, including expenses for any accompanying spouse or children. Upon admission to the university, only international applicants with proof of funding will receive visa documents.

Medical Clearance for New Students

All new students must have the University’s Confidential Health Form reviewed by University Health Services Mānoa (UHSM) before students will be allowed to register. In addition, a tuberculin skin test and/or chest x-ray performed within one year of university enrollment must be submitted as verification that the student is free from active tuberculosis infection. A completed immunization record, which includes proof of disease history or protection by two (2) immunizations against measles, is required as well.
FINANCIAL INFORMATION

Tuition and Fees

Tuition and fees are charged according to the number of credit hours carried by the student; auditors (those enrolled in a course for no credit) pay the same tuition and fees as students enrolled for credit. The tuition and fees cited are those established for the 2016-2017 academic year. 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 Board of Regents or the University administration.

<table>
<thead>
<tr>
<th></th>
<th>Graduate (12+ credits)</th>
<th>Graduate (per credit)</th>
<th>Outreach College (per credit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resident*</td>
<td>$7,644</td>
<td>$637</td>
<td>$637</td>
</tr>
<tr>
<td>Non-Resident*</td>
<td>$18,384</td>
<td>$1,532</td>
<td>$1,532</td>
</tr>
</tbody>
</table>

*see the General and Graduate Information Catalog and/or the Office of Admissions and Records website at [http://manoa.hawaii.edu/admissions/undergrad/financing/residency.htm](http://manoa.hawaii.edu/admissions/undergrad/financing/residency.htm) for residency definitions.

Graduate Teaching and Research Assistantships

The department offers a limited number of graduate assistant positions, generally associated with specific projects. These positions as well as those advertised by other departments are advertised at [http://workatuh.hawaii.edu/other.php](http://workatuh.hawaii.edu/other.php) as they become available. Assistantships cover tuition and a monthly salary. Graduate assistants must pay their own registration fees.

Achievement Scholarships

Office of Graduate Education Achievement Scholarships (formerly known as Graduate Division Achievement Scholarships) are funded from tuition revenues and are intended to provide financial assistance for U.S. and international students based on merit and service. The award amounts, which vary, are credited toward the student's overall tuition costs. To be eligible for this award, students must have a cumulative GPA of 3.5 or above and demonstrate a commitment to the mission, goals, and objectives of the Office of Public Health Studies. The Achievement Scholarship may be awarded to new or continuing students. Waivers do not cover summer session tuition. Awardees are expected to have an maintain a 3.5 or better GPA and register for at least one credit of public health-related course work. It is recommended that applicants to the program submit their completed application materials by the stated deadline as Achievement Scholarship applications are distributed and reviewed early in the admission period. Award recipients must pay any remaining tuition balance by the payment deadline.
East West Center Scholarships

East West Center awards may be available to students from Pacific and Asian (including Russia) countries. For more information or an application, please visit the East West Center website at [http://www.eastwestcenter.org/scholarships-fellowships/](http://www.eastwestcenter.org/scholarships-fellowships/). Their application deadline for awards is November 1.

Other Financial Aid

Prospective students who anticipate a need for financial assistance are strongly encouraged to seek support from local sources and/or private foundations and agencies that share the students’ interests and goals. One should begin this process early, as applications for scholarships are often due six to 12 months before enrollment.

U.S. Students: The Financial Aid Services Office administers a University-wide program of student assistance that includes student employment (both on and off campus), scholarships, grants and loans. For more information or an application, please visit the Financial Aid Services website at [http://www.hawaii.edu/fas](http://www.hawaii.edu/fas) or email [finaid@hawaii.edu](mailto:finaid@hawaii.edu). Priority deadline is March 1 each year.

International Students: International students are cautioned that their opportunities for general scholarships and other forms of financial aid are extremely limited. It is a basic requirement for almost all U.S. financial aid that the applicant be a citizen or permanent resident alien of the United States. An international student must be able to certify complete financial coverage before final admission to the university will be granted.
GENERAL INFORMATION

Classified Graduate and Post-Baccalaureate Unclassified Status

Students who have been admitted by the Office of Graduate Education to pursue a program leading to an advanced degree are designated as classified students. Post-baccalaureate unclassified (PBU) students are not in an advanced degree program. Eligible persons who wish to take UHM courses in the fall or spring semesters as a PBU student may apply for admission through the Office of Graduate Education. An application and official transcripts showing a bachelor’s degree or advanced degree earned at an accredited college or university are required. For more information and/or application, visit their website at [http://manoa.hawaii.edu/graduate/content/applying-pbu-student](http://manoa.hawaii.edu/graduate/content/applying-pbu-student).

Completion of unclassified course work does not imply or guarantee eventual admission into the public health graduate program. Up to 12 credits earned as a PBU student at the University of Hawai‘i may be petitioned for application toward fulfillment of the advanced degree requirements. The request is made to the Office of Graduate Education after enrollment as a classified graduate student.

Time Allowed

Master’s degree candidates must complete all requirements within seven years after admissions to the program. Students who do not complete the degree within seven years are subject to dismissal.

Doctoral students are expected to complete all requirements within seven years after admission into the doctoral program.

Continuing Enrollment

Students must be enrolled each semester (excluding summer sessions) for course work, thesis or research credit at regular fees. Students who are not enrolled or on approved leaves of absence will be regarded as withdrawn from their degree program. All students must be enrolled during the semester in which they plan to graduate.

Summer Sessions

Students are accepted to advanced degree programs by the Office of Graduate Education in the fall and spring semesters only. Students who wish to take graduate level course work during the summer prior to their first registration as a classified student must complete an application form with Outreach College. Credits taken in the summer must be transferred into the degree program during the student’s first semester in the program. Requests for a summer sessions application and/or information are available at [http://www.outreach.hawaii.edu](http://www.outreach.hawaii.edu). Admission to the summer session does not guarantee eventual admission to the public health graduate program.

Course Loads

The minimum full-time load for graduate students is eight degree-related credits per semester. The maximum course load is 16 credit hours in a semester and eight credits in each summer session. Students may exceed maximum load limits only with approval from the graduate chair and the Office of Graduate Education.

Residence Requirements for Degrees

The minimum residence requirements are as follows:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master’s</td>
<td>Two semesters of full-time work or four six-week (may vary in length) summer sessions.</td>
</tr>
<tr>
<td>Doctorate</td>
<td>Three semesters of full-time work.</td>
</tr>
</tbody>
</table>

Residence is defined as registration as a classified graduate student. For part-time students, each unit of eight degree-related credits completed as a classified graduate student will be considered equivalent to one full-time semester. Credits taken at other institutions and approved for transfer may not be used to reduce the University’s minimum residence requirements for advanced degrees.
SELECTED STUDENT SERVICES AND FACILITIES

Office of Public Health Student Academic Services

The Office of Public Health Student Academic Services (OPHSAS) is located in the Biomedical Science Building, Room D-204. The staff specialists assist individuals with application, admission, registration and general information about the public health graduate program and the University. The staff members also assist students with a wide variety of problems, provide advocacy for student concerns and act as the liaison with other University areas such as the Office of Graduate Education, Office of Admissions and Records, Financial Aid Services, KOKUA program, Veterans’ Affairs Office, and International Student Services.

Library Resources

The University of Hawai‘i at Mānoa Libraries (housed in Hamilton and Sinclair Libraries) provide the largest collection of information and research materials in the state. Hamilton Library contains the main book, periodical, and microform collections as well as access to the major online databases and electronic journals. Separate components include Asia collections; Special Collections (Hawaiian, Pacific, Rare Books and Charlot Collections); Government documents; Maps and Microforms; Humanities and Social Sciences (including business and education); and Science and Technology. Sinclair Library has a music collection, the media and audiovisual materials, as well as the older volumes of the journal collection. Librarians provide reference services, research paper consultations, and instruction in library use and database searching. The Interlibrary Loan services helps faculty and students obtain research material from off-campus sources. Faculty and graduate students may obtain subsidized copies of journal articles not owned by the library. Other facilities available are the state of Hawai‘i public libraries.

The Health Sciences Library at the John A. Burns School of Medicine is a biomedical information resource for the region. Located on the ground floor of the Medical Education Building in the Kaka‘ako Waterfront area of Honolulu, the library emphasizes electronic access to clinical resources through its website, http://jabsom.hawaii.edu/hslib. Library hours are Monday through Friday, 8:00 a.m. to 5:00 p.m.

Housing

Prospective students are reminded that acceptance to the University does not ensure housing.

On Campus Housing: Most of the on-campus accommodations are dormitory style with two students sharing a room. Some apartment-style one-and two-bedroom units are also available for sharing. Detailed information and application are available from the Student Housing Services website at http://www.housing.hawaii.edu and/or the East-West Center Housing Services website at http://www.eastwestcenter.org/about-ewc/housing/.

Off-Campus Housing: Information regarding off-campus housing may be obtained from the Off-Campus Housing Referral Program website at http://www.housing.hawaii.edu/och/ or the Atherton YMCA at http://www.ymcahonolulu.org/accommodations/student_housing.

Most graduate students live off-campus. Unfortunately, housing in Honolulu is limited and expensive. Neighborhoods near the university include Mānoa, McCully, Moliiili, Kapahulu, Kaimuki, and St. Louis Heights. Students intending to live off-campus are cautioned to make temporary housing arrangements in hotels or other quarters in advance, if possible, and to bear in mind that rental rates can quickly use up personal funds.
Rental listings may be found on the following websites:

Women's Campus Club Exchange Housing and Rentals: [http://www.hawaii.edu/wcc/exchange.html](http://www.hawaii.edu/wcc/exchange.html)
Honolulu Star Advertiser: [http://homes.hawaiiislandhomes.com/homes/search/for-rent](http://homes.hawaiiislandhomes.com/homes/search/for-rent)
Craigslist: [http://honoolulu.craigslist.org/](http://honoolulu.craigslist.org/)
PadMapper is helpful to see where housing is located: [http://www.padmapper.com/](http://www.padmapper.com/)

**International Student Services**

The International Student Services (ISS) office provides services for international students who come from more than 106 countries to study at the University. ISS encourages the full utilization of the University's international and intercultural resources. Services provided include orientation programs, interpretation of home country and U.S. regulations that apply to non-immigrant students; a monthly newsletter; interaction with the community, schools and other organizations on global education activities; and stimulation of intercultural training and activities among the students at the University. Additional information may be found on their website [http://www.hawaii.edu/issmanoa/](http://www.hawaii.edu/issmanoa/).
COURSES

The course offerings in this publication are subject to change without notice. Please consult MyUH for confirmed course offerings each semester. The minimum required grade for prerequisites for undergraduate-level courses is C- or better, unless otherwise specified. All courses 600-level and above require graduate standing; individuals who are not public health students require instructor consent to enroll in graduate-level courses. The minimum required grade for prerequisites for graduate-level courses is B- or better, unless otherwise specified.

**PH 201 Introduction to Public Health (3)**
Introduces public health concepts with an emphasis on principles and tools for population health, disease prevention, health professions and healthcare systems, and public health professions and systems. A-F only. DS

**PH 202 Public Health Issues in Hawai‘i (3)**
Application of general public health concepts and tools with broader public health issues as they relate to the State of Hawaii. A-F only. Pre: 201.

**PH 203 Introduction to Global Health (3)**
Introduction to the basic principles of global PH. Topics include the application of these principles to global PH issues, exploration of links between health, economic and social status, health disparities and global interventions. A-F only. Pre: 201.

**PH 301 Seminar in Public Health Issues (3)**
Seminar will explore current issues and case studies in epidemiology, issues and causes of chronic and infectious diseases, how the environment interacts with health, and how social and behavioral factors affect personal health.

**PH 305 Native Hawaiian Health Determinants (3)**
Seminar to work with faculty in applying evidence-based knowledge on social determinants of health in the formation of research, policy, and program development for improving population health and reducing health disparities for Native Hawaiians. A-F only. Pre: 201 and 202. (Spring only)

**PH 310 Introduction to Epidemiology (3)**
Lecture/discussion on the fundamental principles of epidemiology, exploring patterns of disease, threats to health and EPI methods for prevention, control and treatment. A-F only.

**PH 325 Youth Risk and Protection – Public Health Research, Practice & Policy (3)**
Application of public health, related to youth health risk and protective factors using an eco-developmental framework. A-F only. Pre: 201 and PSY 100. 1

**PH 330 The United States Health Care System (3)**
Overview of the U.S. health care system. Topics will include health economics, health service expenditures, comparative health systems, health policy, and issues of cost containment, access, and quality of care. A-F only. Pre: 201.

**PH 340 Public Health and the Environment (3)**
Examines a variety of issues associated with environmental effects on disease incidence, morbidity, and mortality in relation to public health prevention strategies. Sophomore standing and above.

**PH 341 Public Health Biology and Pathophysiology (3)**
Explores the biological basis of human disease and the role public health measures play in reducing both the extent and impact of chronic and acute diseases on individuals and society. A-F only. Junior standing or higher. Pre: completion of at least one class in the natural or biological sciences (with a minimum grade of B-) DB
PH 350 Introduction to Biostatistics (3)
Basic biostatistics methods in public health and biomedical research. Topics covered include data collection, data analyses, and interpretation of statistical results. Sophomore standing or higher. A-F only.

PH 410 Advanced Epidemiology (3)
Students will gain a deeper understanding of the core concepts used in epidemiologic research and practice. Upon completion, students will have the knowledge and skills necessary to conduct an epidemiologic study. Junior standing or higher. A-F only. Pre: 201 and 310, and one of the following: 350 or ECON 321 or EDEP 429 or NREM 310 or SOCS 225 or PSY 225.

PH 411 Nutrition and Disease Prevention (3)
Lecture/discussion. Examines a variety of issues through lecture and discussion associated with the effects of diet on disease incidence, morbidity, and mortality in relation to public health prevention strategies. Junior standing or higher. Pre: 310.

PH 420 Social Behavioral Health I: Health Promotion for Individuals & Groups (3)
Focus on the application of social and behavioral theory in health education, and how health promotion programs are constructed for various populations with an emphasis on cultural diversity and social determinants of health. Sophomore standing or higher. A-F only. Pre: 201 and PSY 100. (Fall only)

PH 422 Social Behavioral Health II: Health Promotion in Communities (3)
Introduction to health education and health promotion programming in public health, and to social/behavioral theories used to develop health interventions that affect communities, institutions, and policies. Introduction to common program planning models. A-F only. Pre: 420

PH 430 Health Policy & Management (3)
Examines the role that health policy and management plays in population-based public health practice, including the delivery, quality and costs of health care and the structure, process and outcomes of health services delivery. Sophomore standing or higher. A-F only.

PH 445 Introduction to Environmental Microbiology (3)
Lecture/discussion. Will define the nature and biological activities of microorganisms in different environments and evaluate the effects of these microbes on human activities and health. Junior standing or higher. Pre: MICR 130 or MICR 351 or BIOL 171.

PH 480 Application of Public Health Principles in Research and Practice (3)
Introduction to a diverse range of public health projects and associated methods while working to develop an applied learning project proposal. PH majors only. Junior standing or higher. A-F only. Pre: 201 and 310.

PH 485 Public Health Applied Learning Experience (3)
Allows students to execute an independent mentor-supervised, applied learning project as implementation of skills learned in previous public health coursework. Applied project is a required component of the public health undergraduate degree program. Pre: 480.

PH 489 Public Health Undergraduate Capstone Seminar (3)
Integration of public health knowledge, skills, and practice acquired during the public health undergraduate degree. Students will also reflect on, finalize, and present their applied learning experience projects. Senior standing and higher. A-F only. Pre: 480 and 485.

PH 492 (Alpha) Current Issues and Topics in Public Health (V)
Current and emerging issues and varying topics related to public health. (B) biostatistics; (E) epidemiology; (H) health policy and management; (S) social and behavioral health sciences; (T) public health. Repeatable up to six credits with different alphas. Open to nonmajors. Sophomore standing and above. A-F only. Pre: 201.
PH 499 Directed Reading/Research (V)
Repeatable up to six credits. PH majors only. Junior standing or higher.

PH 500 Master's Plan B/C Studies (1)
Enrollment for degree completion. Pre: master’s Plan B or C candidate and consent.

PH 600 Public Health Foundations (2-3)
Focus will provide a broad introduction to the field of public health and orientation to overarching issues in the field. A-F only. Pre: consent. (Fall only)

PH 602 Introduction to Health Services (3)
Overview of the historical, conceptual, ethical, and political context for health care delivery. It also explores current trends, practices, and issues in the delivery of health care services. Repeatable one time.

PH 610 Public Health Biology (3)
Writing-intensive asynchronous computer-based course examines biological processes and challenges relevant to the public health professional. Topics include anatomical, pathophysiological, and molecular bases of public health; genetics, immunology, ethics; disease prevention, control, and management. (Once a year) (Cross-listed as CMB 610)

PH 623 Social Science and Public Health (3)
Individual and community health; implications for public health practice, individual and social change processes.

PH 626 Health Economics (3)
Integrated concepts in health economics and its application towards health policy issues; market failures in health care; factors affecting U.S. health care spending potential impact on equity/efficiency stemming from changes in health care delivery. A-F only. (Once a year)

PH 628 Stress and Stress Management in Public Health (3)
Lecture/discussion on theoretical concepts of stress and stress management, management issues, selected application areas, and prevention and treatment skills relevant to public health. Format includes readings, guest speakers, student paper, and practical exercises. A-F only. (Once a year)

PH 630 Cultural Competency in Health Care (3)
Presents both analytical and practical approaches to cultural competency domains, concepts, models, frameworks, patterns and communication that occur in cross-cultural health care situations. A-F only.

PH 635 Indigenous Health Seminar (2)
Examines public health through an Indigenous lens, integrates competencies across all public health disciplines, and will apply them in context of working for and with Indigenous communities to improve health and wellness. PH majors or consent. Graduate students only. A-F only. (Fall only)

PH 641 Introduction to Health Policy (3)
Lecture/discussion on historical and current public health policies; the role of stakeholders in health policy making and advocacy; using health policy frameworks for conducting policy analysis. Group activities apply the concepts presented in class. Pre: 602 or consent. (Once a year)

PH 646 Grant Writing in Public Health (1)
Lecture/discussion on grant writing with public health focus. Includes basic components of grant proposals, assessing appropriate funding opportunities, data sources/resources for justifying grants, and the funder’s perspective. Student will prepare a brief foundation grant proposal. A-F only. (Once a year)
PH 647 Analytic Approaches to MCH (3)
Application of analytic methods to the identification of health problems in children and women of reproductive age. Evidence-based approach in MCH. Repeatable one time.

PH 648 Public Health Program Planning (2)
Combined lecture and seminar-style course on the theory and practice of public health program planning. Open to non-majors. A-F only. Pre: consent.

PH 649 Needs Assessment (3)
Knowledge and skills acquisition in conducting needs assessment in public health practice.

PH 650 Ecological Epidemiology (2)
Applications of population biology, pathogen/host life history, and population genetics to infectious disease epidemiology, including micro- and macroparasites, and implications to disease control and prevention of strategies. A-F only. Pre: consent. (Alt. years: spring) (Cross-listed as TRMD 650)

PH 651 Introduction to Human Population (3)
Comparative analysis of quantitative and qualitative aspects of population; factors affecting size, distribution, and composition; impact of population size and composition on society. (Cross-listed as GHPS 651 and SOC 651)

PH 652 Interdisciplinary Seminar (1)
Topics such as contemporary issues in global health and population studies, international health programs, demographic methods, global economy and health, human rights and humanitarian assistance, social justice, global environmental changes and health. Pre: consent. (Cross-listed as GHPS 652)

PH 653 Global Health and Human Security (3)
Provides the knowledge, skills and attitudes required to successfully manage health security crises and protect human vulnerability in the global context with a special focus on problems with high likelihood and risk in the Pacific.

PH 655 Biostatistics I (3)
Introduction to statistical methods for public health sciences. Probability, experimental design, t tests and analysis of variance, 2X2 contingency tables, linear regression, introduction to life tables.

PH 656 Biostatistics II (3)
Poisson distribution, Fisher’s exact test, contrasts in ANOVA, two way ANOVA, multiple linear regression and analysis of covariance, path analysis, logistic regression, method of maximum likelihood, likelihood ratio tests. Pre: PH 655, completion of one semester of calculus or consent.

PH 658 Computer Applications in Public Health (3)
Applications of computers to problems common to public health. Emphasis on data analysis and processing using existing computer programs.

PH 659 Methods of Demographic Analysis (3)
Statistical evaluation and analysis of population data; data sources; population growth; composition; standardization of rates; mortality and the life table; nuptiality and fertility; distribution, migration, and urbanization; projections and stable population theory. (Cross-listed as GHPS 659 and SOC 659)

PH 660 Current Topics in Community Health (2)
Critique of published articles in community health as they relate to public health. Skill building in community health development techniques. Emphasis on exchange of ideas and alternative approaches. Stresses group approaches to solve community health problems. A-F only.
PH 663 Principles of Epidemiology I (3)
Introduction to epidemiologic principles and methods. Topics covered include: outbreak investigation, measures of morbidity and mortality, measurements of risk, biological variability, screening, measurements of error, sampling, statistical significance, study design, and association and causation.

PH 664 Principles of Epidemiology II (3)
Lecture/discussion on: design and interpretation of experimental and observational studies; causation and casual inference; biases in study design; random error and statistics role in epidemiology; and epidemiological data analysis. Pre: 655 and 663, or consent

PH 665 Concepts in Immunology and Immunopathogenesis (2)
Immunological concepts relating to infectious diseases and host pathogen interactions. Repeatable one time. A-F only. Pre: MICR 461 (or equivalent) or consent. (Cross-listed as TRMD 604)

PH 666 Seminar in Infectious Disease Control (3)
Strategies for controlling important infectious diseases in the Pacific area. Emphasis on epidemiology, ecology, and public health principles. Pre: 663 (or concurrent) and one semester in microbiology, or consent.

PH 667 Infectious Disease Micro II (3)
Will cover different families of animal viruses of importance to human diseases. The genome, structure, replication, as well as host immune responses, epidemiology, clinical features, and animal models will be presented. Repeatable one time. A-F only. Pre: TRMD 604 and MICR 351, or consent. (Cross-listed as TRMD 605)

PH 669 Epidemiological Study Design Critique (2)
Critique of study design using published public health literature. Emphasis on exchange of ideas, alternative approaches; stresses epidemiology as science of public health. Repeatable. A-F only. Pre: 663 or consent.

PH 671 Community and Public Health Practice (2)
Community organization and development applicable to the delivery of health services. Understanding community dynamics, mobilizing community groups for effective health care practice and delivery. Pre: 647 or 737; or consent. (Cross-listed as SW 674)

PH 672 Leading and Managing Health Programs (3)
Assess how to organize community partnerships to create and communicate a shared vision for a changing future; discuss solutions to organizational and community challenges; maximize motivation to reach public health goals. A-F only. Pre: 600 or consent.

PH 673 Health Ethics, Law and Politics (3)
Review theories and case studies concerning health care ethics, law and politics. Topics include health care quality, key health care policymakers, and the intersecting issues of policy and law with medicine, public health and ethics. A-F only. (Once a year)

PH 674 Advanced Native Hawaiian Health Determinants (3)
Applications of evidence-based knowledge about the social determinants of health in the formation of research, policy, and program development for improving population health and reducing health disparities for Native Hawaiians. A-F only.

PH 675 Community Engaged Research and Practice (2)
Explores collaborative and engaged approaches with communities in public health research and practice. With a focus on Indigenous Peoples’ health, we delve into Indigenous knowledge and empowerment in evaluation, needs assessment, intervention, and health promotion. PH majors or consent. Graduate students only. Pre: 655 and 673. (Fall only)
PH 676 Hawai‘i Public Health Policies on Infectious Diseases (1)
Examines quarantine/isolation of patients infected with Hanson’s disease. Focus on PH policies before 1823 and after; analysis of other infections in Hawai‘i and the world to examine differences in policies and their effect on the public. Graduate students only. Repeatable one time. A-F only.

PH 677 Managing Global Health Service Delivery (3)
Provides knowledge, skills, attitudes and resources that health managers require to manage and maintain the quality of partnerships, facilities, programs, community service, people, drugs, and information in limited resource settings. PH majors only. A-F only. (Cross-listed as GHPS 677)

PH 680 Health Emergencies in Large Populations (3)
Health Emergencies in Large Populations is run by the Center for Excellence in Disaster Management and Humanitarian Assistance and the Red Cross. It provides knowledge, practical skills, and networking for global health practitioners. A-F only.

PH 681 Environmental Determinants of Health (3)
Environmental factors in personal and community health; implications for public health practice. Consideration of major issues from local, U.S., and international perspectives.

PH 683 Global Nutrition (2)
Examination of global food and nutrition problems, programs, issues, policies, and strategies for improvement. Pre: statistics and consent. (Alt. years: fall) (Cross-listed as FSHN 683)

PH 684 Supplemental and Nutritional Approaches in Disease Prevention and Treatment (3)
Examines a variety of issues associated with nutritional and supplemental approaches to reduce disease incidence, morbidity, and mortality in relation to public health prevention strategies. PH majors only. (Cross-listed as FSHN 684)

PH 686 Advanced Child and Adolescent Nutrition (3)
Addresses nutrition, growth, and development in children and adolescents and nutrition-related issues, such as childhood obesity and chronic disease risk factors, with a focus on current research in the Pacific region. Pre: FSHN 370 or consent. (Fall only) (Cross-listed as FSHN 686)

PH 688 Indigenous Peoples’ Food Systems, Environment and Health (3)
Explores Indigenous Peoples’ food systems as local food resources Indigenous People acquire through specific cultural knowledge of traditional territories. Global forces transforming these food systems and their impact on population health and nutrition are explored. PH majors or consent. Graduate students only. (Fall only)

PH 689 Nutritional Epidemiology (3)
Dietary, biochemical, anthropometric and clinical methods used for evaluating nutrition and diet in the etiology and epidemiology of disease. Pre: 663 and FSHN 685 or consent. (Cross-listed as FSHN 689)

PH 690 Global Health Challenges (3)
Addresses critical, contemporary and transnational issues that are best addressed by cooperative international action. Health issues are examined in the context of intersecting effects of limited resources, socioeconomics, politics and environmental change. A-F only. (Once a year) (Cross-listed as GHPS 690)

PH 691 Fundamentals of Environmental Epidemiology (2)
Examines the complex relationship between environmental contaminants and human health. Emphasis on environmental epidemiology study design, environmental exposure monitoring and risk assessment, disease and environmental exposure mapping, and spatial data analysis and modeling with GIS. A-F only. (Once a year)
PH 692 Clinical Epidemiology (3)
Combined lecture-discussion on health measurement and the use of epidemiologic principles to questions applicable at both individual and population levels on diagnosis, screening, prognosis, and the safety and efficacy of therapeutic and preventive interventions. Pre: 664 or consent. Fall only.

PH 695 Promoting Physical Activity (3)
Overview of the theoretical and applied study of physical activity epidemiology. Physical activity content includes benefits, factors that influence, levels, valid instruments to assess, ad programs to promote physical activity. (Fall only) (Cross-listed as KRS 695)

PH 696 Continuing Education in Public Health (1)
Seminar designed to provide practical, community-focused, continuing education for the practicing public health professional. The application of public health principles to address practical public health problems is stressed. Weekly discussions and reports will cover a variety of relevant public health topics. Repeatable unlimited times. A-F only.

PH 699 Directed Reading/Research (V)
Pre: consent.

PH 700 Thesis Research (V)
Pre: consent.

PH 701 Health Communication (3)
Skills-oriented course introduces the basic structure of health communication strategies in different settings, selected elements of communication theory, the development of health communication material, and a practical training in motivational counseling skills. Pre: 623 or consent.

PH 702 Health Promotion Research (3)
Focus on research methods commonly used in health promotion. Topics will include randomized trials, quasi-experimental design, sampling, measurement, and correlational studies. Labwork will focus on the use of SPSS to analyze data for applied research problems. A-F only. Pre: 623 and 655, or consent.

PH 704 Community-Based Participatory Research (3)
Explores ways academic and lay communities collaborate on research, key theoretical perspectives in the development of CBPR, and the challenges in implementing CBPR approaches. Format includes lectures, discussions, readings, writing assignments, and a fieldwork project. DrPH majors only. A-F only.

PH 728 Indigenous Applied Research Methods (3)
(2 hr Lec, 1 hr Computer Lab) Health disparities research methodologies and current topics in Indigenous health research. Special focus on statistical techniques for small data sets using quantitative and qualitative methods. PH majors only. A-F only. Pre: 655 and 663.

PH 729 Scientific Explorations in Social Justice for Indigenous People (V)
Provides students with an advanced application of health disparities research methodologies to address health and social injustices faced by Indigenous people. Builds on previous courses to advance and produce scientific scholarship. PH majors only or consent. Graduate students only. A-F only. Pre: 728. (Effective Spring 2015)

PH 737 Policies/Programs in MCH Services (3)
Development and organization of health services for mothers and children; review and analysis of policies and events, legislation and programs, current issues. Pre: consent.
PH 742 Qualitative Research for Public Health Sciences (3)
Provides a basic understanding of qualitative research approaches, methodologies, and techniques and for public health research and practice (needs assessment, program development, and evaluation strategies). Graduate students only.

PH 745 MCH and Disabilities I (1-4)
This course is designed to teach leadership development for health professionals in an interdisciplinary seminar format. Inquiry-based learning approaches are applied with a series of families and children with neurodevelopmental and related disabilities to explore clinical, cultural, policy and program implications for services and supports for individuals with disabilities and family members. Program evaluation and research analysis are also conducted with relevance to best practice with the MCH/CSHN population.

PH 746 MCH and Disabilities II (1-4)
This course is designed to apply leadership development for health professionals in an interdisciplinary seminar format. Inquiry-based learning approaches are applied with a series of families and children with neurodevelopmental and related disabilities to explore clinical, cultural, policy, and program implications for services and supports for individuals with disabilities and family members. Program evaluation and research analysis are also conducted with relevance to best practice with the MCH/CHSN population.

PH 747 Statistical Methods in Epidemiological Research (3)
Multiple variable statistical methods currently used in chronic disease epidemiology. Logistic regression, conditional logistic regression, proportional hazards regression modeling, generalized estimating equation-based methods, delta method approximations, exact tests. Pre: 656 and 658 and 664.

PH 748 Chronic Disease Epidemiology (3)
Will cover selected topics in chronic diseases with critical analysis of the current epidemiologic literature. Methodologic issues, contemporary findings and recommendations for future research will be discussed. A-F only. Pre: 663 or consent.

PH 749 Epidemiology of Diabetes and Obesity (2)
Provides an overview of the epidemiology of neurological and neurodegenerative diseases and their risk factors, and methodological considerations for the student of these diseases. A-F only. Pre: 663 or consent.

PH 750 Health Behavior Change (3)
Provide an understanding of the relationship between health behaviors and outcomes including psychological, physiological and quality of life aspects. The course will also focus on the major theories of behavior and behavior change. Emphasis will be placed on understanding concepts, principles and explanations and how these are translated into practical interventions for adoption and maintaining behavior change. A-F only. Pre: 623 or consent.

PH 751 Social Epidemiology (3)
Examine the epidemiologic study of the social distribution and social determinants of states of health, including the identification of social-environmental exposures and their relation to physical and mental health outcomes. Repeatable one time. A-F only.

PH 753 Survival Analysis (3)
Construction and interpretation of various types of life tables, treatment of censored data, proportional hazards, relative risk regression models, and parametric survival analysis. Pre: 655 or consent.

PH 754 Neuroepidemiology (3)
Lecture/discussion providing an overview of the epidemiology of neurological and neurodegenerative diseases and their risk factors, and methodological considerations for the study of these diseases. Pre: 663 or consent. (Fall only).
PH 755 Seminar in Tropical Medicine & Public Health (1)
Weekly discussion and reports on current advances in tropical medicine and public health. Repeatable unlimited times. (Cross-listed as TRMD 690)

PH 756 Special Topics in Tropical Medicine (V)
Advanced instruction in frontiers of tropical medicine and public health. Repeatable unlimited times. (Cross-listed as TRMD 705)

PH 757 Evolution, Epidemiology, and Public Health (2)
Will explore several aspects of human health through the perspective of how natural selection and evolution influence disease risk, with the aim of improving treatment and prevention. Graduate students only. A-F only. Pre: 663 (with a minimum grade of B). (Alt. years: fall)

PH 765 Program Evaluation (3)
Presented are principles of and frameworks for program evaluation. Students develop logic models and evaluation plans for a community program and collect and analyze evaluation data. A-F only. Pre: 649. (Spring only)

PH 770 (Alpha) Doctoral Seminar in Translational Research (2)
Required for students in the DrPH program. (B) domestic & global health disparities; (C) research methods in health disparities; (D) evidence-based programs in global health & health disparities; (E) topics in health disparities & policy. Repeatable up to 8 credits. Each alpha can only be taken one time. A-F only. Pre: 602 and 623 and 655 and 663 and 681, or departmental approval.

PH 771 Teaching Practicum (3)
Provide doctoral students with theoretical and practical teaching and course development experiences under the guidance of a faculty mentor. Students will have a portfolio documenting their accomplishments. Graduate standing in PH only. A-F only. Pre: 602 and 623 and 655 and 663 and 681 and 770(Alpha), or departmental approval.

PH 772 Research Practicum (3)
Hands-on research experience with a faculty mentor. Meet in small groups to discuss issues related to research in public health. Final project will be submission of a publishable quality paper. Graduate standing in PH only. A-F only. Pre: 602 and 623 and 655 and 663 and 681 and 770(Alpha), or departmental approval.

PH 773 Leading Health Organizations (3)
Reviews theories, knowledge, and practical skills that improve capacity to provide effective leadership in health organizations, organize community partnerships, communicate a shared vision, manage quality and address organizational challenges to reach public health goals. DrPH majors only. Graduate standing only. A-F only. Pre: 602 and 623 and 655 and 663 and 681. (Alt. years)

PH 774 Managing Health Organizations (3)
Reviews theories, knowledge, and skills that build managerial capacity. Explores health executive roles in planning, organizing, implementing, and evaluating along with organizational design, strategic planning, change processes, quality improvement, and minimizing risk. DrPH majors only. Graduate standing only. A-F only. Pre: 602 and 623 and 655 and 663 and 681. (Alt. years)

PH 781 Environmental Health Lab Methods (2)
Hands-on training for laboratory methods used in monitoring and detecting environmental health risk factors; learning and application of immunological-, animal cell culture- and molecular biology-based techniques for studying environmental pathogens and toxic pollutants. A-F only. (Once a year)
PH 788 Seminar in Public Health Sciences (V)
Topics related to recent developments in major areas; student and faculty research activities. Sections: (1) biostatistics; (2) environmental health; (3) epidemiology; (4) public health nutrition. Repeatable unlimited times.

PH 789 Integrative Seminar (2)
Integrative seminar in public health required as part of the student capstone experience to bring together key aspects of their courses, competencies, and practicum. A-F only. Pre: completed PH field practicum and consent.

PH 791 Advanced Public Health Practice (3)
Observation, study, and practical work in student’s area of specialization. Pre: public health degree candidate and consent.

PH 792 (Alpha) Current Issues & Topics in Public Health (V)
Current and emerging issues and topics related to public health. (B) biostatistics; (D) environmental health; (E) epidemiology; (H) health policy and management; (I) Native Hawaiian and Indigenous Health; (S) social and behavioral health sciences; (U) public health. Repeatable unlimited times. PH majors only for (D) and (I).

PH 793 Special Practicum/Project (V)
Supervised practical training beyond the required practicum in an area of particular interest. Provides additional opportunity to synthesize, integrate, and apply practical skills and knowledge in a public health work environment. Repeatable one time. Pre: 791 and a minimum of 6 credit hours of PH core courses, or consent.

PH 794 (Alpha) Exploration in Public Health (V)
Investigation of emergent fields of inquiry in public health. (B) biostatistics; (D) environmental health; (E) epidemiology; (H) health policy and management; (I) Native Hawaiian and Indigenous Health; (S) social and behavioral health sciences; (U) public health. Repeatable unlimited times. PH majors only.

PH 800 Dissertation Research(V)
Pre: consent.
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<tr>
<td>Cheryl Albright</td>
<td>Social &amp; Behavioral Health Sciences</td>
<td>Biomed C-105</td>
<td><a href="mailto:cherylal@hawaii.edu">cherylal@hawaii.edu</a></td>
<td>956-9716</td>
</tr>
<tr>
<td>Kathryn Braun</td>
<td>Social &amp; Behavioral Health Sciences</td>
<td>Biomed D-209E</td>
<td><a href="mailto:kbraun@hawaii.edu">kbraun@hawaii.edu</a></td>
<td>956-5768</td>
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<tr>
<td>Vanessa Buchthal</td>
<td>Social &amp; Behavioral Health Sciences</td>
<td>Biomed D-104B</td>
<td><a href="mailto:opalb@hawaii.edu">opalb@hawaii.edu</a></td>
<td>956-4308</td>
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<td>Jane Chung-Do</td>
<td>Social &amp; Behavioral Health Sciences</td>
<td>Biomed D-104D</td>
<td><a href="mailto:chungjae@hawaii.edu">chungjae@hawaii.edu</a></td>
<td>956-4548</td>
</tr>
<tr>
<td>Robert Cooney</td>
<td>Epidemiology (Environmental Health)</td>
<td>Biomed D-104K</td>
<td><a href="mailto:rcooney@hawaii.edu">rcooney@hawaii.edu</a></td>
<td>956-5775</td>
</tr>
<tr>
<td>Treena Delormier</td>
<td>Native Hawaiian &amp; Indigenous Health</td>
<td>Biomed D-104AA</td>
<td><a href="mailto:treenad@hawaii.edu">treenad@hawaii.edu</a></td>
<td>956-5742</td>
</tr>
<tr>
<td>Victoria Fan</td>
<td>Health Policy &amp; Management</td>
<td>Biomed D-104G</td>
<td><a href="mailto:vfan@hawaii.edu">vfan@hawaii.edu</a></td>
<td>956-5596</td>
</tr>
<tr>
<td>Andrew Grandinetti</td>
<td>Epidemiology</td>
<td>Biomed D-104L</td>
<td><a href="mailto:andrewg@hawaii.edu">andrewg@hawaii.edu</a></td>
<td>956-7495</td>
</tr>
<tr>
<td>Eric Hurwitz</td>
<td>Epidemiology</td>
<td>Biomed D-104M</td>
<td><a href="mailto:ehurwitz@hawaii.edu">ehurwitz@hawaii.edu</a></td>
<td>956-7425</td>
</tr>
<tr>
<td>Alan Katz</td>
<td>Epidemiology</td>
<td>Biomed D-104A</td>
<td><a href="mailto:katz@hawaii.edu">katz@hawaii.edu</a></td>
<td>956-5741</td>
</tr>
<tr>
<td>Yuanan Lu</td>
<td>Epidemiology (Environmental Health)</td>
<td>Biomed D-104JA</td>
<td><a href="mailto:yuanan@hawaii.edu">yuanan@hawaii.edu</a></td>
<td>956-2702</td>
</tr>
<tr>
<td>Elizabeth McFarlane</td>
<td>Social &amp; Behavioral Health Sciences</td>
<td>Biomed D-104C</td>
<td><a href="mailto:ccmcfarl@hawaii.edu">ccmcfarl@hawaii.edu</a></td>
<td>956-4553</td>
</tr>
<tr>
<td>Denise Nelson-Hurwitz</td>
<td>Native Hawaiian &amp; Indigenous Health</td>
<td>Biomed D-203</td>
<td><a href="mailto:denisen@hawaii.edu">denisen@hawaii.edu</a></td>
<td>956-3089</td>
</tr>
<tr>
<td>Claudio Nigg</td>
<td>Social &amp; Behavioral Health Sciences</td>
<td>Biomed C-105A</td>
<td><a href="mailto:cnigg@hawaii.edu">cnigg@hawaii.edu</a></td>
<td>956-2862</td>
</tr>
<tr>
<td>Catherine Pirkle</td>
<td>Health Policy &amp; Management</td>
<td>Biomed D-104H</td>
<td><a href="mailto:cmpirkle@hawaii.edu">cmpirkle@hawaii.edu</a></td>
<td>956-8748</td>
</tr>
<tr>
<td>Tetine Sentell</td>
<td>Health Policy &amp; Management</td>
<td>Biomed T-102B</td>
<td><a href="mailto:tsentell@hawaii.edu">tsentell@hawaii.edu</a></td>
<td>956-5781</td>
</tr>
<tr>
<td>Maile Taualii</td>
<td>Native Hawaiian &amp; Indigenous Health</td>
<td>Biomed D-103B</td>
<td><a href="mailto:mtaualii@hawaii.edu">mtaualii@hawaii.edu</a></td>
<td>956-7231</td>
</tr>
<tr>
<td>Rebecca Williams</td>
<td>Social &amp; Behavioral Health Sciences</td>
<td>Biomed C-103</td>
<td><a href="mailto:rwillia@hawaii.edu">rwillia@hawaii.edu</a></td>
<td>956-2334</td>
</tr>
<tr>
<td>Yan Yan Wu</td>
<td>Epidemiology (Biostatistics)</td>
<td>Biomed D-104F</td>
<td><a href="mailto:yywu@hawaii.edu">yywu@hawaii.edu</a></td>
<td>956-6025</td>
</tr>
<tr>
<td>Valerie Yontz</td>
<td>Social &amp; Behavioral Health Sciences</td>
<td>Biomed D-202</td>
<td><a href="mailto:vyontz@hawaii.edu">vyontz@hawaii.edu</a></td>
<td>956-5771</td>
</tr>
</tbody>
</table>