Public Health

Bachelor of Arts (BA)

The School of Public Health offers an undergraduate major through the College of Letters and Science (http://ls.berkeley.edu) . The goal of the major is to provide students with an interdisciplinary understanding of epidemiology, biostatistics, environmental health, health behavior, and health policy. These areas of emphasis range across the spectrum of natural science to social science. Students in the program will develop and apply knowledge from multiple disciplines for the promotion and protection of the health of the human population giving due consideration to principles of human rights and cultural perspectives that abound in a multicultural country and world.

Declaring the Major

Although the major remains capped (impacted), the Department encourages all qualified students to apply. To qualify, students must have completed the prerequisites in math, biology, and the social sciences with a minimum passing grade in all of the prerequisites and a B minus minimum in Biology 1B. For further information regarding these prerequisites, please see the Major Requirements tab on this page.

Students should apply to declare a major in Public Health after completion of the lower division requirements which is generally at the end of the sophomore year. Transfer students should apply during the summer or fall semesters whenever they have completed the prerequisites. Generally, third year transfer students have completed their prerequisite coursework at community college and are ready to declare the major at the beginning of their first semester at UC Berkeley.

After completing the prerequisites, students should submit an application and application essay. For the application and detailed application instructions, please see the School of Public Health website (http://sph.berkeley.edu/undergraduate-major/about-major) . The application to declare the Public Health major includes the following:

1. A review of an applicant's academic preparation (coursework and GPA)
2. An application essay similar to the "Statement of Purpose" required by graduate applications to the School of Public Health. In the application essay, students should describe the pathway that led them to an interest in this field of study, their experience relevant to Public Health (including volunteering), and their long-term ambitions for what they are thinking about doing with a degree in Public Health. All applications will be reviewed by Public Health faculty.

While completing the prerequisites (http://sph.berkeley.edu/undergraduate-major/course-requirements) for Public Health, students should also be taking all necessary steps to prepare themselves to declare an alternate major. According to the Academic Senate regulations, a student should declare a major when they reach 60 units of coursework. Please keep this in mind when deciding a major. While the Department will do its best to bring in all qualified students, there is no guarantee that any one particular student will be admitted into the major. Therefore, students interested in the Public Health major should prepare a back-up major just in case they are not selected. Students hopeful of making a valuable contribution to public health can declare alternative majors such as Anthropology, Molecular and Cell Biology, Integrative Biology, Civil and Environmental Engineering, Communications, Conservation Resource Studies, Earth and Planetary Science, the Interdisciplinary Studies (ISF) Major, American Studies, Social Welfare, or Psychology—just to list a few. Public health demands everyone's attention—there are myriad undergraduate majors here at Cal who will help students prepare to dedicate their professional life to this, literally vital, cause.

All students interested in the major, or the field of public health in general, are encouraged to consult with the Academic Adviser concerning possible alternatives.

Minor Program

There is no minor program in Public Health.

In addition to the University, campus, and college requirements, listed on the College Requirements tab, students must fulfill the below requirements specific to their major program.

General Guidelines

1. All courses taken to fulfill the major requirements below must be taken for graded credit, other than courses listed which are offered on a *Pass/No Pass* basis only. Other exceptions to this requirement are noted as applicable.
2. No more than one upper-division course may be used to simultaneously fulfill requirements for a student's major and minor programs, with the exception of minors offered outside of the College of Letters and Science.
3. A minimum grade point average (GPA) of 2.0 must be maintained in both upper- and lower-division courses used to fulfill the major requirements.

For information regarding residence requirements and unit requirements, please see the College Requirements tab.

Lower-division Prerequisites

All prerequisite courses must be completed before declaring the major.

Biological Sciences		
Select one of the following options:		6
Option 1		
BIOLOGY 1B & BIOLOGY 1	General Biology Lecture and Laboratory and General Biology Laboratory	
Option 2		
Select two of the following:		
MCELLBI 32	Introduction to Human Physiology	
MCELLBI 50	The Immune System and Disease	
MCELLBI 55	Plagues and Pandemics	
MCELLBI 61	Course Not Available	
NUSCTX 10	Introduction to Human Nutrition	
Mathematics		
Select two of the following, or their equivalents:		
MATH 1A	Calculus	
MATH 1B	Calculus	
MATH 10A	Methods of Mathematics: Calculus, Statistics, and Combinatorics	
MATH 10B	Methods of Mathematics: Calculus, Statistics, and Combinatorics	

MATH 16A	Analytic Geometry and Calculus	
MATH 16B	Analytic Geometry and Calculus	
MATH 32	Precalculus	
Social Science		
Select three courses from at least two of the following areas:		
Psychology		
PSYCH 1	General Psychology	
or PSYCH 2	Principles of Psychology	
Sociology		
SOCIOL 1	Introduction to Sociology	
SOCIOL 3	Course Not Available	
or SOCIOL 3AC	Principles of Sociology: American Cultures	
or SOCIOL 5	Evaluation of Evidence	
Economics		
ECON 1	Introduction to Economics	
or ECON 2	Introduction to Economics--Lecture Format	
or ECON 3	Course Not Available	
Anthropology		
ANTHRO 3	Introduction to Social and Cultural Anthropology	
or ANTHRO 3AC	Introduction to Social/Cultural Anthropology (American Cultures)	
Political Science		
POL SCI 2	Introduction to Comparative Politics	
POL SCI 4	Introduction to Political Theory	

Upper-division Requirements

PB HLTH 142	Introduction to Probability and Statistics in Biology and Public Health [1]	4
PB HLTH 150A	Introduction to Epidemiology and Human Disease	4
Select two of the following:		
PB HLTH 150B	Introduction to Environmental Health Sciences	
PB HLTH 150D	Introduction to Health Policy and Management	
PB HLTH 150E	Introduction to Community Health and Human Development	
PB HLTH 162A	Public Health Microbiology	
Electives: Select 12 additional upper-division units (see below for further information)		

[1] Alternatively, PB HLTH 141 Introduction to Biostatistics or STAT 131A Introduction to Probability and Statistics for Life Scientists can be used to fulfill this requirement.

Electives

Students who plan to continue to graduate school are strongly advised to concentrate elective units in only one or two areas of study. Most other courses in public health, including graduate level classes (but excluding the DeCal and group study courses), can also meet elective requirements.

Biostatistics		
DEMOG 110	Introduction to Population Analysis	3
MATH 53	Multivariable Calculus	4
MATH 54	Linear Algebra and Differential Equations	4
PB HLTH 143	Course Not Available	4
PB HLTH 145	Statistical Analysis of Continuous Outcome Data	4
STAT 134	Concepts of Probability	3
STAT 135	Concepts of Statistics	4
STAT 150	Stochastic Processes	3
STAT 151A	Linear Modelling: Theory and Applications	4
STAT 151B	Linear Modelling: Theory and Applications	4
STAT 152	Sampling Surveys	4
Infectious Diseases		
ESPM 145	Course Not Available	2
ESPM 146	Course Not Available	3
INTEGBI 131	General Human Anatomy	3
INTEGBI 132	Survey of Human Physiology	4
INTEGBI 137	Human Endocrinology	4
MCELLBI 102	Survey of the Principles of Biochemistry and Molecular Biology	4
MCELLBI C114	Introduction to Comparative Virology	4
MCELLBI 130	Course Not Available	4
MCELLBI 140	General Genetics	4
MCELLBI 142	Course Not Available	4
MCELLBI 150	Molecular Immunology	4
MCELLBI C160	Course Not Available	4
PLANTBI 110	Course Not Available	4
Epidemiology		
CHEM 112A	Organic Chemistry	5
DEMOG 110	Introduction to Population Analysis	3
GEOG 130	Food and the Environment	4
INTEGBI 131	General Human Anatomy	3
INTEGBI 132	Survey of Human Physiology	4
INTEGBI 140	Biology of Human Reproduction	4
MCELLBI 140	General Genetics	4
MCELLBI 152	Course Not Available	4
PB HLTH 112	Global Health: A Multidisciplinary Examination	4
Environmental Health Sciences		
CIV ENG 108	Course Not Available	3
CIV ENG 109	Course Not Available	3
CIV ENG 110	Course Not Available	3
CIV ENG 111	Environmental Engineering	3
CIV ENG 113N	Ecological Engineering for Water Quality Improvement	3
CIV ENG 114	Environmental Microbiology	3
CHEM 112A	Organic Chemistry	5
CHEM 112B	Organic Chemistry	5
ECON/ ENVECON C102	Natural Resource Economics	4
ENVECON 131	Globalization and the Natural Environment	3
ENVECON 152	Advanced Topics in Development and International Trade	3
ENVECON 153	Population, Environment, and Development	3
ENVECON 161	Advanced Topics in Environmental and Resource Economics	4
ENVECON C151/ ECON C171	Economic Development	4

ENVECON/ ECON C181	International Trade	4
ENE,RES 100	Course Not Available	4
ENE,RES 102	Quantitative Aspects of Global Environmental Problems	4
ENE,RES 130	Course Not Available	3
ESPM 155	Sociology and Political Ecology of Agro-Food Systems	4
ESPM C167	Environmental Health and Development	4
ESPM 168	Political Ecology	4
ESPM 169	International Environmental Politics	4
GEOG 123	Postcolonial Geographies	4
GEOG 130	Food and the Environment	4
GEOG 138	Global Environmental Politics	4
HISTORY 120AC	American Environmental and Cultural History	4
IAS/ENVECON C175	The Economics of Climate Change	4
NUSCTX 166 & SOCIOL 121	Nutrition in the Community and Innovation and Entrepreneurship: Social and Cultural Context	7
SOCIOL 166	Society and Technology	4
Health Policy & Management		
CY PLAN 112A	Course Not Available	3
CY PLAN 120	Community Planning and Public Policy for Disability	3
ECON 157	Health Economics	4
ESPM 102D	Climate and Energy Policy	4
LEGALST 103	Theories of Law and Society	4
LEGALST 107	Theories of Justice	4
LEGALST C165/ PUB POL C162	Course Not Available	
LEGALST 168	Sex, Reproduction and the Law	4
MEDIAST 102	Effects of Mass Media	4
PB HLTH 116	Seminar on Social, Political, and Ethical Issues in Health and Medicine	2
PB HLTH 126	Health Economics and Public Policy	3
PB HLTH 180	The Evolution of Human Sexuality	2
PB HLTH 181	Poverty and Population	3
PB HLTH 183	The History of Medicine, Public Health, and the Allied Health Sciences	3
PUB POL 101	Introduction to Public Policy Analysis	4
PUB POL 117AC	Race, Ethnicity, and Public Policy	4
PUB POL 156	Program and Policy Design	4
PUB POL 179	Public Budgeting	4
POL SCI 103	Congress	4
POL SCI 150	The American Legal System	4
POL SCI 171	California Politics	4
SOC WEL 112	Social Welfare Policy	3
Community Health & Human Development		
ASAMST 143	Asian American Health	3
CHICANO 176	Chicanos and Health Care	3
NUSCTX 166	Nutrition in the Community	3
PB HLTH 103	Drugs, Health, and Society	2
PB HLTH 104A & PB HLTH 104B	Health Promotion in a College Setting and Health Promotion in a College Setting	4
PB HLTH 105	Policy, Planning, and Evaluation of Health Promotion in a College Setting	3
PB HLTH 113	Campus/Community Health Impact Program	3
PB HLTH 114	Course Not Available	3
PB HLTH 14	Healthy People: Introduction to Health Promotion	4
PB HLTH 107	Course Not Available	2
PB HLTH C129	The Aging Human Brain	3
PB HLTH C155	Sociology of Health and Medicine	4

Undergraduate students in the College of Letters and Science must fulfill the following requirements in addition to those required by their major program.

For detailed lists of courses that fulfill college requirements, please see the College of Letters and Sciences (http://guide.berkeley.edu/archive/2014-15/undergraduate/colleges-schools/letters-science) page in this bulletin.

Entry Level Writing

All students who will enter the University of California as freshmen must demonstrate their command of the English language by fulfilling the Entry Level Writing Requirement. Fulfillment of this requirement is also a prerequisite to enrollment in all reading and composition courses at UC Berkeley.

American History and American Institutions

The American History and Institutions requirements are based on the principle that a U.S. resident graduated from an American university should have an understanding of the history and governmental institutions of the United States.

American Cultures

American Cultures is the one requirement that all undergraduate students at Cal need to take and pass in order to graduate. The requirement offers an exciting intellectual environment centered on the study of race, ethnicity and culture of the United States. AC courses offer students opportunities to be part of research-led, highly accomplished teaching environments, grappling with the complexity of American Culture.

Quantitative Reasoning

The Quantitative Reasoning requirement is designed to ensure that students graduate with basic understanding and competency in math, statistics, or computer science. The requirement may be satisfied by exam or by taking an approved course.

Foreign Language

The Foreign Language requirement may be satisfied by demonstrating proficiency in reading comprehension, writing, and conversation in a foreign language equivalent to the second semester college level, either by passing an exam or by completing approved course work.

Reading and Composition

In order to provide a solid foundation in reading, writing and critical thinking the College requires two semesters of lower division work in composition. Students must complete a first-level reading and

composition course by the end of their second semester and a second-level course by the end of their fourth semester.

Breadth Requirements

The undergraduate breadth requirements provide Berkeley students with a rich and varied educational experience outside of their major program. As the foundation of a liberal arts education, breadth courses give students a view into the intellectual life of the University while introducing them to a multitude of perspectives and approaches to research and scholarship. Engaging students in new disciplines and with peers from other majors, the breadth experience strengthens interdisciplinary connections and context that prepares Berkeley graduates to understand and solve the complex issues of their day.

Unit Requirements

- 120 total units, including at least 60 L&S units
- Of the 120 units, 36 must be upper division units
- Of the 36 upper division units, 6 must be taken in courses offered outside your major department

Residence Requirements

For units to be considered in "residence," you must be registered in courses on the Berkeley campus as a student in the College of Letters and Science. Most students automatically fulfill the residence requirement by attending classes here for four years. In general, there is no need to be concerned about this requirement, unless you go abroad for a semester or year or want to take courses at another institution or through University Extension during your senior year. In these cases, you should make an appointment to see an adviser to determine how you can meet the Senior Residence Requirement.

Note: Courses taken through UC Extension do not count toward residence.

Senior Residence Requirement

After you become a senior (with 90 semester units earned toward your B.A. degree), you must complete at least 24 of the remaining 30 units in residence in at least two semesters. To count as residence, a semester must consist of at least 6 passed units. Intercampus Visitor, EAP, and UC Berkeley-Washington Program (UCDC) units are excluded.

You may use a Berkeley summer session to satisfy one semester of the Senior Residence Requirement, provided that you successfully complete 6 units of course work in the Summer Session and that you have been enrolled previously in the College.

Modified Senior Residence Requirement

Participants in the UC Education Abroad Program (EAP) or the UC Berkeley-Washington Program (UCDC) may meet a Modified Senior Residence Requirement by completing 24 (excluding EAP) of their final 60 semester units in residence. At least 12 of these 24 units must be completed after you have completed 90 units.

Upper Division Residence Requirement

You must complete in residence a minimum of 18 units of upper division courses (excluding EAP units), 12 of which must satisfy the requirements for your major.

Learning Goals for the Major

1. Critical Thinking Skills:
   - Describe the Public Health framework of the determinants of the health of populations
   - Recognize the Public Health perspective of disease prevention and health promotion
   - Explain how Public Health studies the interplay between biology, environment, and behavior
   - Understand the basic concepts from the social and behavioral sciences in Public Health
2. Quantitative Skills:
   - Recognize commonly used measures of population health
   - Identify commonly used methods of measuring risk
   - Describe common study designs for assessing risk from exposures
   - Assemble and display summary measures using graphs and tables
   - Recognize the basics of statistical hypothesis testing
   - Know how to calculate and interpret confidence intervals
3. Communication Skills:
   - Incorporate statistical and scientific findings into written materials
   - Prepare fact sheets and other health education tools
   - Know how to interpret Public Health reports and scientific literature
   - Create and give presentations on Public Health issues
4. Problem-Solving Skills:
   - Research and summarize relevant Public Health literature
   - Apply the “systems thinking” approach to issues in Public Health
   - Identify problems in Public Health with “upstream-downstream” model
5. Specialized Knowledge:
   - Integrate human biology and genetics with Public Health issues
   - Comprehend the basics of infectious disease
   - Understand the basics of chronic disease
   - Examine and assess environmental health issues
   - Describe the organization and financing of the United States health care system
6. Lifelong Learning Skills:
   - Identify ethical issues of Public Health
   - Be able to perform data collection and research
   - Acknowledge the role of disparities in Public Health

Public Health

PB HLTH 14 Healthy People: Introduction to Health Promotion 4 Units
Introduction to personal and community health, drawing on physical and social sciences. Specific areas include stress, alcohol and drugs, nutrition, exercise, the environment, communication, and sexuality. Readings, lectures, and discussions explore key issues for students and examine those issues in the context of contemporary American society. Public health approaches to disease prevention and health promotion are explored for each topic.
Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Kodama

PB HLTH 14N Healthy People: Introduction to Health Promotion 3 Units
This course introduces students to the basic theories and skills of personal and community health promotion within a public health context. Using a broad multi-disciplinary perspective, the course will examine selected health topics with particular attention to individual and group behaviors and their implications for personal and community health.
Objectives & Outcomes

Course Objectives: 1. To introduce students to the depth and scope of issues embraced by the theory and practice of public health.
2. To provide an overview of the meaning, principles, ethics and scope of personal and community health promotion.
3. To help students identify ways that individuals can take action to maximize their own health and create health-promoting environments.
4. To provide an opportunity for students to critically explore selected health issues from a multi-disciplinary perspective.
5. To provide an opportunity for students to apply the above concepts to a scholarly examination of a health issue in their own community, and to create positive, healthy change in their own community.

Hours & Format

Summer: 8 weeks - 6 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Harris, Gamble

PB HLTH 24 Freshman Seminar in Public Health 1 Unit
Seminar limited to 15 freshmen led by senior faculty on broad topics in public health such as financing health care, promoting preventive behavior, controlling major public health problems such as world hunger, AIDS, drugs, and the population explosion.
Rules & Requirements

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

PB HLTH 39C Freshman/Sophomore Seminar 2 - 4 Units
Freshman and sophomore seminars offer lower-division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.
Rules & Requirements

Credit Restrictions: Priority given to freshmen and sophomores.

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

PB HLTH 39E Freshman/Sophomore Seminar 2 - 4 Units
Freshman and sophomore seminars offer lower-division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.
Rules & Requirements

Credit Restrictions: Priority given to freshmen and sophomores.

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

PB HLTH 39G Freshman/Sophomore Seminar 2 - 4 Units
Freshman and sophomore seminars offer lower-division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Rules & Requirements

Credit Restrictions: Priority given to freshmen and sophomores.

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

PB HLTH 39H Freshman/Sophomore Seminar 2 - 4 Units
Freshman and sophomore seminars offer lower-division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Rules & Requirements

Credit Restrictions: Priority given to freshmen and sophomores.

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

PB HLTH 39I Freshman/Sophomore Seminar 2 - 4 Units
Freshman and sophomore seminars offer lower-division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Rules & Requirements

Credit Restrictions: Priority given to freshmen and sophomores.

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

PB HLTH 84 Sophomore Seminar 1 or 2 Units
Sophomore seminars are small interactive courses offered by faculty members in departments all across the campus. Sophomore seminars offer opportunity for close, regular intellectual contact between faculty members and students in the crucial second year. The topics vary from department to department and semester to semester. Enrollment limited to 15 sophomores.

Rules & Requirements

Prerequisites: At discretion of instructor

Repeat rules: Course may be repeated for credit as topic varies. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring:
5 weeks - 3-6 hours of seminar per week
10 weeks - 1.5-3 hours of seminar per week
15 weeks - 1-2 hours of seminar per week

Summer:
6 weeks - 2.5-5 hours of seminar per week
8 weeks - 1.5-3.5 hours of seminar and 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

PB HLTH 97 Field Study 1 - 4 Units
Supervised experience relevant to specific aspects of public health in off-campus organizations. Regular individual meetings with faculty sponsor and written reports required.
Rules & Requirements

Prerequisites: Lower division standing

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of independent study per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

PB HLTH 98 Directed Group Study 1 - 4 Units
Rules & Requirements

Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

PB HLTH 99 Supervised Independent Study 1 - 4 Units
Rules & Requirements

Prerequisites: Consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of independent study per week

Summer:
6 weeks - 2.5-10 hours of independent study per week
8 weeks - 1.5-7.5 hours of independent study per week
10 weeks - 1.5-6 hours of independent study per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

PB HLTH C102 Bacterial Pathogenesis 3 Units
This course for upper division and graduate students will explore the molecular and cellular basis of microbial pathogenesis. The course will focus on model microbial systems which illustrate mechanisms of pathogenesis. Most of the emphasis will be on bacterial pathogens of mammals, but there will be some discussion of viral and protozoan pathogens. There will be an emphasis on experimental approaches. The course will also include some aspects of bacterial genetics and physiology, immune response to infection, and the cell biology of host-parasite interactions.
Rules & Requirements

Prerequisites: 100, 102 or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Portnoy

Also listed as: MCELLBI C103/PLANTBI C103

PB HLTH 103 Drugs, Health, and Society 2 Units
Introduces undergraduates to concepts basic to understanding and analyzing relationships between drugs, health, and society. Using a broad multi-disciplinary perspective, examines legal and illegal drugs and their effects on personal and community health. Prevention of drug problems at the policy, community, organization, and individual levels will be examined.
Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Kodama

PB HLTH 104A Health Promotion in a College Setting 2 Units
Topics include health promotion, medical self-care, and delivery of health care service. Through a combined theory and practice approach, topics are covered as they apply to the campus community. The course is divided into three sections corresponding to particular campus health field experiences in which students may be involved.
Rules & Requirements

Prerequisites: Consent of instructor

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Instructor: Kodama

PB HLTH 104B Health Promotion in a College Setting 2 Units
Topics include health promotion, medical self-care, and delivery of health care service. Through a combined theory and practice approach, topics are covered as they apply to the campus community. The course is divided into three sections corresponding to particular campus health field experiences in which students may be involved.
Rules & Requirements

Prerequisites: Consent of instructor

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

Instructor: Kodama

PB HLTH 105 Policy, Planning, and Evaluation of Health Promotion in a College Setting 3 Units
Theory and practice of policy, planning, implementation, and evaluation of health promotion programs in a college setting. Comparison of different methodologies (peer education, teaching, problem-posing, organizational change), content areas (stress, nutrition, alcohol and drugs, AIDS, sexuality, women's health, self-care, health services), and settings (clinical, classroom, living room, campus).
Rules & Requirements

Prerequisites: 14, 104A or 104B, and consent of instructor

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Kodama

PB HLTH 107 Violence, Social Justice, and Public Health 2 Units
This course addresses violence as a public health issue, using an interdisciplinary public health approach to enable undergraduate students to explore and analyze violence from personal, social, community, and political perspectives. Beginning with individual experiences of violence and its impact, the course will go on to focus on gender- and race-based violence, firearms, poverty, youth, and collective violence; students will learn to apply public health strategies to identify causes of violence and develop practical community-based plans to prevent violence and promote safety.
Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Creighton, Kodama

PB HLTH 112 Global Health: A Multidisciplinary Examination 4 Units
This course examines health at the individual and community/global level by examining the interplay of many factors, including the legal, social, political, and physical environments; economic forces; access to food, safe water, sanitation, and affordable preventive/medical care; nutrition; cultural beliefs and human behaviors; and religion; among others. Students will be expected to read, understand, and use advanced materials from diverse disciplines. Class accompanied by case-based discussions.
Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Krishnan, Reingold

PB HLTH 113 Campus/Community Health Impact Program 3 Units
This course looks at the issues of substance abuse, HIV prevention, and sexual health, particularly in relation to underpresented groups, including African-American, Chicano/Latino, and LGBT communities. It covers principles of public health, community engagement, social justice, and health promotion. Students have the chance to participate in community outreach and develop basic outreach and health educator skills.
Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

PB HLTH 116 Seminar on Social, Political, and Ethical Issues in Health and Medicine 3 Units
An interdisciplinary approach to health and medicine administered through the Health and Medical Apprenticeship Program (HMAP). Guest lecturers will speak on the social, political, and ethical aspects of health and medicine; students will then discuss and present analyses of the reading materials as well as issues raised by the speakers.
Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam required.

Instructor: Potts

PB HLTH C117 Introduction to Global Health Disparities Research 2 Units
This course is designed to prepare trainees in the UC Berkeley "Minority Health/Global Health" (MH/GH) program to conduct a ten-week infectious disease research project in a disease-endemic country. The course provides a background in neglected tropical disease research, international research ethics, and the conduct of health research in low-resource settings.
Hours & Format

Fall and/or spring: 15 weeks - 1 hour of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Reingold

Also listed as: INTEGBI C195

PB HLTH 118 Nutrition in Developing Countries 3 Units
We will focus on low- and middle-income countries because they experience the greatest burden of malnutrition, and because they face a unique context of limited financial and government resources. In this course, we will discuss the effects of nutrition throughout the lifecycle in pregnancy, infancy, childhood, and adulthood. We will focus on nutrition broadly including issues of undernutrition, micronutrient deficiencies, and obesity. We will also analyze and evaluate actions taken to ameliorate the major nutritional problems facing vulnerable populations in low- and middle-income countries.
Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Fernald

PB HLTH 126 Health Economics and Public Policy 3 Units
This course focuses on a selected set of the major health policy issues and uses economics to uncover and better understand the issues. The course examines the scope for government intervention in health markets.
Rules & Requirements

Prerequisites: Public Health major or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 8 weeks - 6 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Scheffler

PB HLTH C129 The Aging Human Brain 3 Units
The course will survey the field of the human brain, with introductory lectures on the concepts of aging, and brief surveys of normal neuroanatomy, neurophysiology, neurochemistry, and neuropsychology as well as methods such as imaging, epidemiology, and pathology. The neurobiological changes associated with aging will be covered from the same perspectives: neuropsychology, anatomy, biochemistry, and physiology. Major neurological diseases of aging including Alzheimer's and Parkinson's disease will be covered, as will compensatory mechanisms, neuroendocrine changes with aging, depression and aging, epidemiology of aging, and risk factors for decline.
Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Jagust

Also listed as: NEUROSC C129

PB HLTH 140 Introduction to Risk and Demographic Statistics 4 Units
Statistical and evaluation methods in studies of human mortality, morbidity, and natality. History of statistical terminology and notation, critical appraisal of registry and census data, measurement of risk and introduction to life tables. Computational systems and the analysis of mass data.
Rules & Requirements

Prerequisites: One year of calculus

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Tarter

PB HLTH 141 Introduction to Biostatistics 5 Units
An intensive introductory course in statistical methods used in applied research. Emphasis on principles of statistical reasoning, underlying assumptions, and careful interpretation of results. Topics covered: descriptive statistics, graphical displays of data, introduction to probability, expectations and variance of ramdom variables, confidence intervals and tests for means, differences of means, proportions, differences of proportions, chi-square tests for categorical variables, regression and multiple regression, an introduction to analysis of variance. Statistical software will be used to supplement hand calculation. Students who successfully complete Public Health 141 are prepared to continue their biostatistics course work in 200-level courses. With the approval of their degree program, MPH students may use Public Health 141 to fulfill the biostatistics course requirement (contact program manager for approval). Public Health 141 also fulfills the biostatistics course requirement for the Public Health Undergraduate Major.
Rules & Requirements

Prerequisites: High school algebra

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture, 1 hour of discussion, and 2 hours of laboratory per week

Summer: 6 weeks - 12.5 hours of lecture and 7.5 hours of laboratory per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

PB HLTH 142 Introduction to Probability and Statistics in Biology and Public Health 4 Units
Descriptive statistics, probability, probability distributions, point and interval estimation, hypothesis testing, chi-square, correlation and regression with biomedical applications.
Rules & Requirements

Prerequisites: High school algebra

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Selvin

Formerly known as: 142A

PB HLTH 142AB Introduction to Probability and Statistics in Public Health and Biology 4 Units
This course will provide an intense, fast-paced presentation of material contained in 142A-142B, which are offered during the regular academic year. Topics from 142A include descriptive statistics, probability, probability distributions, point and interval estimation, hypothesis testing, chi-square, correlation and regression with biomedical applications. The following topics from 142B will also be covered: analysis of variance, multiple regression, and nonparametric statistics.
Rules & Requirements

Prerequisites: High school algebra

Hours & Format

Summer:
4 weeks - 15 hours of lecture per week
6 weeks - 0 hours of lecture per week
8 weeks - 0 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: van der Laan

PB HLTH W142 Introduction to Probability and Statistics in Biology and Public Health 4 Units
Descriptive statistics, probability, probability distributions, point and interval estimation, hypothesis testing, chi-square, correlation, and regression with biomedical applications.
Hours & Format

Fall and/or spring: 7 weeks - 8 hours of web-based lecture per week

Online: This is an online course.

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Lahiff

PB HLTH 144A Introduction to SAS Programming 2 Units
This course is intended to serve as an introduction to the SAS programming language for Windows in an applied, workshop environment. Emphasis is on data management and programming in a public health research setting. Topics include SAS language to compute, recode, label, and format variables as well as sort, subset, concatenate, and merge data sets. SAS statistical procedures will be used to compute univariate and bivariate summary statistics and tests, simple linear models,graphical plots, and statistical output data sets.
Rules & Requirements

Prerequisites: 142 or consent of instructor

Credit Restrictions: This course (or equivalent) is required for students who plan to enroll in 251, Practicum in Epidemiological Methods. Enrollment is limited to School of Public Health students. If space permits, others may enroll with consent of instructor.

Hours & Format

Fall and/or spring: 8 weeks - 2 hours of lecture and 3 hours of laboratory per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Lein

PB HLTH 144B Intermediate SAS Programming 2 Units
Topics include data step flow control, looping and automated processing, implicit and explicit arrays, data simulation strategies, data set reconfiguration, use of SAS Macro variables, and writing simple SAS Macro programs.
Rules & Requirements

Prerequisites: 144A

Credit Restrictions: Enrollment is limited to School of Public Health students. If space permits, others may enroll with consent of instructor.

Hours & Format

Fall and/or spring: 8 weeks - 2 hours of lecture and 3 hours of laboratory per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Lein

PB HLTH 145 Statistical Analysis of Continuous Outcome Data 4 Units
Regression models for continuous outcome data: least squares estimates and their properties, interpreting coefficients, prediction, comparing models, checking model assumptions, transformations, outliers, and influential points. Categorical explanatory variables: interaction and analysis of covariance, correlation and partial correlation. Appropriate graphical methods and statistical computing. Analysis of variance for one- and two-factor models: F tests, assumption checking, multiple comparisons. Random effects models and variance components. Introduction to repeated measures models.
Rules & Requirements

Prerequisites: 142 or equivalent

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Lahiff

Formerly known as: 142B

PB HLTH 150A Introduction to Epidemiology and Human Disease 4 Units
This course introduces epidemiological methods with the goal of teaching students to read critically and interpret published epidemiologic studies in humans. The course also exposes students to the epidemiology of diseases and conditions of current public health importance in the United States and internationally.
Rules & Requirements

Prerequisites: A course in statistics, preferably 142

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Abrams, Barcellos, Buffler

Formerly known as: 150

PB HLTH 150B Introduction to Environmental Health Sciences 3 Units
The course will present the major human and natural activities that lead to release of hazardous materials into the environment as well as the causal links between chemical, physical, and biological hazards in the environment and their impact on human health. The basic principles of toxicology will be presented including dose-response relationships, absorption, distribution, metabolism, and excretion of chemicals. The overall role of environmental risks in the pattern of human disease, both nationally and internationally, will be covered. The engineering and policy strategies, including risk assessment, used to evaluate and control these risks will be introduced.
Rules & Requirements

Prerequisites: 142 and 150A recommended. May be taken concurrently

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: K. Smith

Formerly known as: second half of 150

PB HLTH 150D Introduction to Health Policy and Management 3 Units
This course is intended to introduce students to health policy making and health care organizations in the United States. Students will be introduced to concepts from public policy, economics, organizational behavior, and political science. Students will also be introduced to current issues in U.S. health policy and the present organization of the U.S. health care system.
Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 8 weeks - 6 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Halpin

PB HLTH 150E Introduction to Community Health and Human Development 3 Units
This course will consist of a survey of the major social, cultural, and bio-behavioral patterns of health and well-being among individuals, families, neighborhoods, and communities. The course also will address the design, implementation, and evaluation of leading social and behavioral interventions and social policies designed to improve community and population health. This course will satisfy one of the core requirements for the undergraduate major in public health.
Rules & Requirements

Prerequisites: Third or fourth undergraduate standing or consent of instructor

Requirements this course satisfies: Satisfies the American Cultures requirement

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Satariano

PB HLTH C155 Sociology of Health and Medicine 4 Units
This course covers several topics, including distributive justice in health care, the organization and politics of the health system, the correlates of health (by race, sex, class, income), pandemics (e.g., AIDS, Avian Flu and other influenzas, etc.), and the experience of illness and interactions with doctors and the medical system.
Rules & Requirements

Prerequisites: Sociology 1, 3, 3AC or consent of instructor

Credit Restrictions: Students will receive no credit for Sociology C115 after taking Sociology 155, Sociology C155/Public Health C155.
A deficient grade in Sociology 155 may be removed by taking Sociology C115/Public Health C155.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 6 weeks - 7.5-8 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Formerly known as: C155

Also listed as: SOCIOL C115

PB HLTH C160 Environmental Health and Development 4 Units
The health effects of environmental alterations caused by development programs and other human activities in both developing and developed areas. Case studies will contextualize methodological information and incorporate a global perspective on environmentally mediated diseases in diverse populations. Topics include water management; population change; toxics; energy development; air pollution; climate change; chemical use, etc.
Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Morello-Frosch

Also listed as: ESPM C167

PB HLTH 162A Public Health Microbiology 3 Units
Introduction to properties of microorganisms; their relationships with humans in causing infectious diseases and in maintaining health. With 162L, satisfies most requirements for a laboratory course in microbiology. May be taken without 162L.
Rules & Requirements

Prerequisites: One year each of college-level biology and chemistry

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Summer: 8 weeks - 6 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Buehring, Dailey

PB HLTH 162L Public Health Microbiology Laboratory 1 Unit
Laboratory to accompany 162A.
Rules & Requirements

Prerequisites: One year each of college-level biology and chemistry. Students must take 162A concurrently or have taken it previously

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of laboratory per week

Summer:
6 weeks - 6 hours of laboratory per week
8 weeks - 4 hours of laboratory per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Loretz

PB HLTH 170B Toxicology 3 Units
Introduction to toxicology covering basic principles, dose-response, toxicity testing, chemical metabolism, mechanisms of toxicity, carcinogensis, interpretation of toxicological data for risk assessment, and target organ toxicity.
Rules & Requirements

Prerequisites: Consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: M. Smith

PB HLTH 170C Drinking Water and Health 3 Units
The course covers monitoring, control and regulatory policy of microbial, chemical and radiological drinking water contaminants. Additional subjects include history and iconography of safe water, communicating risks to water consumers and a bottled water versus tap water taste test as part of the discussion on aesthetic water quality parameters. A field trip to a local water treatment plant in included.
Objectives & Outcomes

Student Learning Outcomes: By the end of this course, students will be expected to:

Recognize the global occurrence of waterborne contaminants and related health impacts.

Understand water quality monitoring and control of key water quality constituents.

Appreciate the complexities of the regulatory process as it pertains to public drinking water systems in the US and abroad.

Read and synthesize published and unpublished sources of information regarding drinking water and health. Prepare a literature review in journal submission format.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Smith

PB HLTH 180 The Evolution of Human Sexuality 2 Units
This course is built around an evolutionary perspective of the basis of human mating behavior and explores a variety of topics in human sexualtiy with the goal of helping us to understand ourselves and to understand and accept the behavior of others. The course takes examples from art, sociology, anatomy, anthropology, physiology, contemporary politics, and history to explore the richness of human sexual behavior and reproduction and the interaction between our biology and our culture.
Hours & Format

Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Potts

PB HLTH 181 Poverty and Population 3 Units
Globally one million more births than deaths occur every 112 hours, 90% in the poorest countries. Between 1960 and 1980, considerable attention was focused on rapid population growth. Afterwards, the attention has faded and investment in family planning evaporated. Family size among some of the poorest women is increasing. This course seeks to provide an understanding of the relationships between population growth, poverty, women’s autonomy, and health. It explores the political "fashions" underlying changing paradigms among demographers, and economists, and development specialists.
Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructors: Campbell, Potts, Prata

PB HLTH 183 The History of Medicine, Public Health, and the Allied Health Sciences 3 Units
This course will examine the historical developments of social and scientific responses to human disease from their beginnings to their current roles as major forces in modern society. It will consider the evolution of diagnoses, treatment, and prevention of human morbidity and death from both a humanistic and scientific perspective. It invites pre-medical, pre-dental, and other students preparing for careers in public health, nursing, optometry, or the other health sciences, students interested in public policy and health-related law, and students of history or the other humanities who wish an overview of medicine and health from a broad historical perspective.
Rules & Requirements

Prerequisites: Knowledge of (and preferably a college level course which covered) basic aspects of (mammalian) physiology and anatomy. Graduate or upper division undergraduate status

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Hook

PB HLTH H195A Special Study for Honors Candidates in Public Health 3 Units
Regular individual meetings with a faculty advisor culminating in a thesis at completion of H195B. H195A will concentrate primarily on researching a topic in public health. H195B will concentrate on development and writing up results in the form of a thesis. Students must enroll for both semesters of the sequence.
Rules & Requirements

Prerequisites: Senior status; 3.3 overall GPA

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of independent study per week

Summer:
6 weeks - 7.5 hours of independent study per week
8 weeks - 5.5 hours of independent study per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. This is part one of a year long series course. A provisional grade of IP (in progress) will be applied and later replaced with the final grade after completing part two of the series. Final exam not required.

PB HLTH H195B Special Study for Honors Candidates in Public Health 3 Units
Regular individual meetings with a faculty advisor culminating in a thesis at completion of H195B. H195A will concentrate primarily on researching a topic in public health. H195B will concentrate on development and writing up results in the form of a thesis. Students must enroll for both semesters of the sequence.
Hours & Format

Fall and/or spring: 15 weeks - 3 hours of independent study per week

Summer:
6 weeks - 7.5 hours of independent study per week
8 weeks - 5.5 hours of independent study per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. This is part two of a year long series course. Upon completion, the final grade will be applied to both parts of the series. Final exam not required.

PB HLTH 196 Special Topics in Public Health 1 - 4 Units
Special topics in various fields of Public Health. Topics covered will vary from semester to semester and will be announced at the beginning of each term.
Rules & Requirements

Prerequisites: Upper division standing

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of lecture per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

PB HLTH 197 Field Study in Public Health 1 - 4 Units
Supervised experience relevant to specific aspects of public health in off-campus organizations. Regular individual meetings with faculty sponsor and written reports required.
Rules & Requirements

Prerequisites: Upper division standing

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of independent study per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

PB HLTH 198 Directed Group Study 1 - 4 Units
Rules & Requirements

Prerequisites: Upper division standing

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Summer:
6 weeks - 1-4 hours of directed group study per week
8 weeks - 1-4 hours of directed group study per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

PB HLTH 199 Supervised Independent Study and Research 1 - 4 Units
Enrollment restrictions apply; see the Introduction to Courses and Curricula section of this catalog.
Rules & Requirements

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of independent study per week

Summer:
6 weeks - 1-4 hours of independent study per week
8 weeks - 1-4 hours of independent study per week

Additional Details

Subject/Course Level: Public Health/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.