

University of California, Berkeley

Public Health Undergraduate Major

Student Handbook

2014-2015

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I. Introduction: The Public Health Undergraduate Major

The Public Health major is a relatively recent addition to the University of California, Berkeley. The major began in 2003, and the first class graduated in 2004. The faculty and staff in the Public Health department are dedicated to the success of the program, which is popular among the student body.

Public health seeks to improve human health through the development and application of knowledge that prevents disease, protects the public from harm, and promotes health throughout the state, the nation, and the world.

Under the public health major, undergraduates 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 our multicultural country and world.

The undergraduate major in public health is offered through the College of Letters and Science.

II. Pressure on the Major

The Undergraduate Major in Public Health is undergoing heavy enrollment pressures. However, the major will do its best to accommodate all those who are qualified. If need be, students should be prepared to seek alternative majors such as Molecular and Cellular Biology, Integrative Biology, ISF (Interdisciplinary Studies), American Studies, Social Welfare, or Psychology.

The application procedure, in place since May 2011, includes both a review of an applicant's academic preparation (prerequisite coursework and GPA) and a writing sample known as the "Statement of Purpose." This gives the applicant the opportunity to demonstrate their experience relevant to Public Health (including volunteering), their long-term plans for what they will do with a degree in Public Health, and also to demonstrate their writing and communication skills. Applications are accepted at the end of every semester, including summer; <http://sph.berkeley.edu/students/undergrad/index.php> has specific dates.

III. Public Health Faculty

a. Undergraduate Management Committee

1. [Bill Satariano \(Chair\)](#)

- **Research Interests:** Investigation of functional disability in older women with breast cancer; study of exercise capacity and physical performance in older populations.

2. [Steve Selvin](#)

- **Research Interests:** Epidemiologic methods, spatial analysis, Matched pair design and application to problems in human health, statistical analysis of epidemiologic data.

3. [Lisa Barcellos](#)

- **Research Interests:** Genetic epidemiology of complex diseases; identification of genetic and environmental risk factors for multiple sclerosis; genetic variation in the major histocompatibility complex (MHC) and autoimmune disease; maternal-child histocompatibility and risk of autoimmune disease; epigenetic contributions to autoimmune disease risk; application of causal inference methods to autoimmune disease studies.

4. [Joan Bloom](#)

- **Research Interests:** Late effects of treatment on cancer survivors; effects of exercise and diet on late effects of cancer treatment; implementing and sustaining change in health organizations; reducing cancer disparities in Alameda County

5. [John Balmes](#)

- **Research Interests:** Effects of ozone on persons with asthma; chronic effects of ozone on lung function; effects of nitrogen dioxide on allergic airway inflammation in persons with asthma; risk of lung cancer and cardiovascular mortality; respiratory effects of inhaled particulate matter; effects of air pollution on the natural history of asthma in children.

6. [Maureen Lahiff](#)

- **Research Interests:** Multivariate methods; Time series and longitudinal data; Acculturation and health.

7. [Charlotte Smith](#)

- **Research Interests:** Impact assessment and evaluation of rural water systems and public health programs in rural Central American communities; microbial ecology of waterborne pathogens; bacterial endosymbionts of free-living protozoa

b. Some Additional Teaching Faculty

[Professor Tomas Aragon](#)

- **Research Interests:** Epidemiology & control of infectious diseases; Public Health emergency preparedness; epidemiologic methods & computing; community & population health.

[Professor Malcolm Potts](#)

- **Research Interests:** Mobilization of resources for international family planning; reducing nonevidence-based barriers preventing access to contraception and safe abortion; reducing maternal deaths, especially through the use of misoprostol to control postpartum hemorrhage; biological origins of human warfare; AIDS prevention strategies, resources, and the role of male circumcision.

Professor Arthur Reingold

- **Research Interests:** Opportunistic infections in AIDS patients; interrelationships between tuberculosis and AIDS in developing countries; emerging infections and vaccine preventable diseases in the US and developing countries.

c. Honors Research Affiliated Faculty

In addition to the faculty listed above, the following professors have previously worked with students on Honors Thesis Projects: Amani Nuru-Jeter, Katherine Hammond, Alan Steinbach, Sylvia Guendelman, Winston Tseng and Jack Colford.

For more information about honors research projects, please refer to section X, on page 13.

IV. Course Requirements: Important Information

a. Bio 1B: A requirement

To qualify for the Public Health major, students **must** first receive a minimum grade of a **B-** in Bio 1B. Students interested in the major, or the field of Public Health in general, are encouraged to consult with the Student Academic Adviser concerning possible entry into this popular program, including possible alternative majors.

b. Letter Grade or Pass/No Pass?

All course work is to be taken for a letter grade (with the exception of possible electives PH 116 and PH 104 A/B, which are Pass/No Pass only).

V. Course Requirements for the Public Health Major

a. University of California Requirements

- Subject A, American History and Institutions

b. Berkeley Campus Requirements

- American Cultures
- Reading/Composition
- Quantitative Reasoning
- Breadth requirements

c. Biological Science Requirements

- **General Biology 1B (4)**
(A minimum grade of B- is required for all new students.)
- **General Biology 1A (4)***
OR two of the following courses:
 - **NST 10:** Introduction to Human Nutrition (3)
 - **MCB 32:** Introduction to Human Physiology (3)
 - **MCB 50:** Immunology: Immune System and Disease (3)

- **MCB 55:** Plagues and Pandemics (3)
 - **MCB 61:** Neurobiology: Brain, Mind, and Behavior (3)
- *requires Chemistry 1A (3); Chemistry 3A/L (5) recommended

d. Mathematics Requirements

A minimum of **two** courses or equivalent:

- **MATH 1A:** Calculus (4)
- **MATH 1B:** Calculus (4)
- **MATH 10A:** Methods of Mathematics (4)
- **MATH 10B:** Methods of Mathematics (4)
- **MATH 16A:** Calculus (3)
- **MATH 16B :** Calculus (3)
- **MATH 32:** Pre-calculus (4)

e. Social Sciences Requirements

Three courses in at least two areas:

1) Psychology

- **PSYCH 2:** Principles of Psychology (3)
(**PSYCH 1** is also acceptable *but* not both)

2) Sociology

- **SOCIOL 1:** Introduction of Sociology (4)
- **SOCIOL 3 or 3AC or 5:** Principles of Sociology (4)

3) Economics

- **ECON 1, 2, or 3:** Introduction to Economics (4)

4) Anthropology

- **ANTHRO 3 or 3AC:** Introduction to Social and Cultural Anthropology (4)

5) Political Science

- **POLI SCI 2:** Introduction to Comparative Politics (4)
- **POLI SCI 4:** Introduction to Political Theory (4)

- f.** AP scores of 4 or 5 are acceptable for the following social sciences: Psych, Econ (both micro and macro for 1 social science), Government (for either Poli Sci 2 or 4).

g. Public Health Requirements

Four core courses must be completed. Note that effective for students entering in 2015 and graduating 2017, accreditation changes will require that students take 5 core classes (PH142, 150A, B, D, and E) along with a meeting a “capstone” requirement, which most likely will be a seminar in the student’s final semester).

- **PH 142:** Intro to Probability and Statistics in Public Health (4)
 - (Alternatively, PH 141 or Stat 131A can be used to meet this requirement.)

- **PH 150A:** Introduction to Epidemiology (4)

The remaining **two** core classes can be any of the following:

- **PH 150B:** Introduction to Environmental Health (3)
- **PH 150D:** Introduction to Health Policy & Management (3)
- **PH 150E:** Community Health and Human Development (3)
- **PH 162A:** Public Health Microbiology (3)

h. Electives

Twelve units of elective courses are required. Students who plan to continue to graduate school are strongly advised to concentrate elective units in only one or two areas of study. Pre-approved coursework from Education Abroad Programs may be used towards electives.

Any class categorized as Public Health may count as an elective unit towards the Public Health major, except for DeCal classes and independent research. Other courses not expressly listed below may be considered pending one-time approval by the Undergraduate Management Committee. Please discuss with the Academic Advisor.

Undergraduates may also be permitted to take graduate classes pending instructor approval and pre-requirement completion. Please discuss with the instructor prior to signing up for the class on Tele-Bears.

Please refer to the on-line schedule of classes for more details about specific courses.

1) Biostatistics

- **DEMOG 110:** Introduction to Population Analysis (3)
- **MATH 53:** Multivariable Calculus (4)
- **MATH 54:** Linear Algebra and Differential Equations (4)
- **PH 143:** Introduction to Methods in Computational Biology (4)
- **PH 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/B:** Linear Modeling: Theory and Application (8)
- **STAT 152:** Introduction to Time Series (4)

2) Infectious Diseases

- **ESPM 145:** Arthropod-borne Zoonotic Diseases (2)
- **ESPM 146:** Medical/Veterinary Entomology (3)
- **MCB 102:** Principles of Biochemistry and Molecular Biology (4)
- **MCB 114:** Introduction to Comparative Virology (4)
- **MCB 130:** Cell Biology (4)
- **MCB 140:** General Genetics (4)
- **MCB 142:** Survey of General Genetics (4)
- **MCB 150:** Molecular Immunology (4)

- **MCB 160:** Introduction to Neurobiology (4)
- **IB 131:** General Anatomy (3)
- **IB 132:** Survey of Human Physiology (3)
- **IB 137:** General Endocrinology (4)
- **PMB 110:** Biology of Fungi (4)

3) Epidemiology

- **CHEM 112A/B:** Organic Chemistry (10)
- **DEMOG 110:** Introduction to Population Analysis (3)
- **GEOG 130:** Natural Resources and Populations (3)
- **IB 131:** General Human Anatomy (3)
- **IB 132:** Survey of Human Physiology (3)
- **IB 140:** Biology of Reproduction (4)
- **MCB 140:** General Genetics (4)
- **MCB 152:** The Immune System (4)
- **PH112:** Global Health: A Multidisciplinary Examination (4)

4) Environmental Health Sciences

- **CHEM 112A, B :** Organic Chemistry (10)
- **CIV ENG 108:** Air Pollution Emission and Controls (3)
- **CIV ENG 109:** Indoor Air Quality (3)
- **CIV ENG 110:** Water Pollution Control and Treatment (3)
- **CIV ENG 111:** Environmental Engineering (3)
- **CIV ENG 113N:** Ecological Engineering for Water Quality Improvement (3)
- **CIV ENG 114:** Environmental Microbiology (3)
- **DEV STD 150/GEOG C123:** Postcolonial Geographies (4)
- **ECON C102/ENVECON C102:** Natural Resource Economics (4)
- **ENE,RES 100:** Energy and Society (4)
- **ENE,RES 102:** Quantitative Aspects of Global Environment Problems (4)
- **ENE,RES 130:** Analysis of Environmental Data (3)
- **ENVECON 131:** Globalization and the Natural Environment (4)
- **ENVECON C151/Economics C171:** Economic Development (4)
- **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 C181/Economics C181:** International Trade (4)
- **ESPM 155:** Sociology of Natural Resources (4)
- **ESPM 167:** Environmental Health and Development (4)
- **ESPM 168:** Political Ecology (3)
- **ESPM 169:** International Environmental Politics (4)
- **GEOG 130:** Food and the Environment (4)
- **GEOG 138:** Global Environmental Politics (4)
- **HISTORY 120AC:** Environmental and Cultural History of America (4)

- **IAS C175/ENVECON C175:** The Economics of Climate Change
- **ISF 100D:** Introduction to Technology, Society, and Culture (4)
- **LATAMST 150:** Perspectives for Sustainable Rural Development in Latin America (4)
- **NUSCTX 166:** Nutrition in the Community (3)
- **PB HLTH 170:** Drinking Water and Health (3)
- **PB HLTH C172:** Pharmacology and Toxicology (3)
- **SOCIOL 121:** Innovation and Entrepreneurship: Social and Cultural Context (4)
- **SOCIOL 166:** Society and Technology (4)

5) Health Policy & Management

- **CY PLAN 112A:** The Idea of Planning (3)
- **CY PLAN 120:** Community Planning + Public Policy for Disability (3)
- **ECON 157:** Health Economics (3)
- **ESPM 102D:** Resource and Environmental Policy (4)
- **LS 103:** Theories of Law and Society (4)
- **LS 107:** Theories of Justice (4)
- **LS 165:** Drug, Tobacco and Alcohol Policy (cross-listed with **PP 162C**) (3)
- **LS 168:** Sex, Reproduction and the Law (4)
- **MEDIA STUDIES 102:** The Effects of Mass Media (4)
- **PH 116:** Social, Political and Ethical Issues in Health/ Medicine (2)
- **PH 126:** Health Economics (3)
- **PH 180:** Topics in Human Sexuality (2)
- **PH 181:** Poverty and Population (3)
- **PH 183:** History of Public Health, Medicine, and Allied Sciences (3)
- **PP 101:** Introduction to Public Policy Analysis (4)
- **PP 156:** Program and Policy Design (4)
- **PP 117AC:** Race, Ethnicity and Public Policy (4)
- **PP 179:** Public Budgeting (4)
- **PS 103:** Congress (4)
- **PS 150:** The American Legal System (3)
- **PS 171:** California Politics (4)
- **SW 112:** Social Welfare Policy (3)

6) 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 14:** Introduction to Public Health (4)
- **PB HLTH 103:** Drugs, Health, and Society (2)
- **PB HLTH 104 A/B:** Health Promotion in a College Setting (2/2)
- **PB HLTH 105:** Policy, Planning and Evaluation of Health Promotion in a College Setting (3)
- **PB HLTH 107:** Violence, Social Justice, and Public Health (2)
- **PB HLTH 113:** Campus/Community Health Impact Program (3)

- **PB HLTH 114:** Issues in Personal and Community Health Promotion (3)
- **PB HLTH C129:** Aging and the Human Brain (3)
- **PB HLTH C155:** Sociology of Illness (3)

VI. Advising Information

a. Student Academic Adviser

Anatole (Tony) Soyka, M.A.

Office hours by appointment only, scheduled by email or phone.

sphug@berkeley.edu

425 University Hall

(510) 643-0874

b. Student Peer Advisers

Please feel free to email any of the student advisors with questions about the major, classes, or just to connect with someone who is already in the major, by email under the advising section of the undergraduate site:

<http://sph.berkeley.edu/students/undergrad/advising.php>. This will also list specific courses each peer adviser has taken.

c. General Advising Information

You and the University share responsibility for your education. Our most successful students recognize the responsibility they must assume for their own progress. At UC Berkeley, you have both the freedom and the responsibility to make sound decisions about your academic career. With this freedom comes the need to be responsible not only about your academics, but also about the administrative duties you need to complete in order to graduate.

As with any degree program, the Student Academic Advisor is not responsible for the initiation and creation of a full program for any single student; however he, along with the Peer Advisors, are available to help guide students and answer questions as students create their plans.

The College of Letters & Science has extensive tools for planning out a college degree program. Their helpful website is at: <http://ls-advise.berkeley.edu/pyyac/intro.html>, and is broken down by year (freshman, sophomore, junior, senior). Their Step-by-Step Guide is especially useful for quick access to information based on the year you are in and specific skills you are interested in establishing. The Step-by-Step tool can be found at: <http://ls.berkeley.edu/stepbystep/>

d. Tele-Bears Advising Information

After a student declares their major, and/or has 90+ units of coursework, an advisor code will be required to sign into Tele-Bears. At the beginning of the Tele-Bears Enrollment period, declared majors must meet

with the Student Academic Advisor for approval of their proposed class list prior to receiving their Adviser Code. An appointment can be made with the Student Academic Advisor through email.

Students are expected to have reviewed the schedule of classes before meeting with the Student Academic Advisor. Students should ensure that all classes they are interested in are offered in the next semester and do not have time conflicts with other classes they are planning on taking.

VII. Declaring the Major

To qualify for the major, a student must **first** complete all of the lower division requirements (mathematics, biology, and social sciences) and obtain a grade of at least a **B-** in Bio 1B and at least a passing grade (**C-**) in the other prerequisite courses.

Students must submit an application, accepted at the end of every semester, including summer (<http://sph.berkeley.edu/students/undergrad/index.php>), and if accepted, the student can then declare, usually by the end of their second year. Students typically will have earned 60 units (minus AP units and community college courses completed while still in high school) by this point.

VIII. Other Major Options

While we understand that the public health major is extremely desirable, there are other majors that may suit your interests if you are unable to declare Public Health due to limited openings in the major.

1) Interdisciplinary Studies Field Major

The Interdisciplinary Studies Field Major (ISF) at UC-Berkeley offers students the opportunity to develop individualized cross disciplinary majors utilizing courses from the social sciences, the humanities, and/or the professional schools and colleges. The ISF Major is unique in the [College of Letters and Science](#) in the importance it assigns to the advising role. The student's part in this aspect of the major is active, not passive. That is, the student must actively plan her/his own program and cultivate a working relationship with the assigned or chosen faculty adviser. For more information, visit: <http://ls.berkeley.edu/ugis/isf/>

2) Molecular and Cell Biology

The undergraduate major in Molecular and Cell Biology encompasses the diversity of scientific interests of the department's faculty. There are several emphases to choose from: Biochemistry & Molecular Biology, Cell & Developmental Biology, Genetics, Genomics & Development, Immunology, and Neurobiology. Students majoring in any of these emphases have been highly successful in entering graduate or medical

school and in other science- and health-related careers. For more information, visit: <http://mcb.berkeley.edu/undergrad/>

3) Integrative Biology

The Department of Integrative Biology is in the Division of Biological Sciences in the College of Letters and Science. Students in the department gain a background in all aspects of biology, including a wide range of organisms and diverse investigative techniques. For more information, visit: <http://ib.berkeley.edu/student/undergrad/>

4) American Studies

American Studies is an interdisciplinary major which mixes social sciences, material culture, the built environment, law, business, history and literature. This degree can also be focused in American health and wellness, by encouraging students to create individual programs which suite their interests. For more information, visit: <http://ls.berkeley.edu/ugis/as/>

5) Social Welfare

The Undergraduate Group Major in Social Welfare introduces students to problems, policies, and methods in the social welfare field. This major is an excellent pre-professional major for education, law, public health, public policy, and related fields. For more information, visit: http://socialwelfare.berkeley.edu/undergrads/ugrad_program.htm

IX. Education Abroad Programs

Citing the increase in global health issues, the major encourages students to consider a semester studying abroad, even if the specific abroad program does not meet specific Public Health program requirements. At the very minimum, study abroad can meet a variety of breadth requirements such as international, arts & literature, and historical. Additionally, the more language and culture skills a public health professional has, the better, and students are especially encouraged to have Spanish as an additional language. Other students are interested in a “heritage” EAP, traveling to a country of their background.

Some popular destinations have included Spain, China, and the U.K. Costa Rica has an interesting bioresearch program, while a new program in Botswana in southern Africa specifically has coursework on public health issues. Overall, there are over 150 programs in 35 countries.

In general, education abroad coursework could potentially meet electives in the public health program, as long as the courses taken abroad are similar to those at Berkeley already selected by the faculty here.

For more information, please go to <http://eap.ucop.edu/>.

X. Honors Thesis Research Projects

For the Public Health major, students may conduct an honors thesis research project. Students must find a faculty member to be their mentor for a research project of their own choosing. The first step is to select a topic of research, the student is passionate about. The second step is to find a faculty mentor who is willing to mentor the student through the thesis writing process.

Students must have a minimum 3.3 GPA for all courses taken at UC Berkeley.

The Honors Thesis project is a two semester commitment, usually starting in fall semester, concluding in spring. Once a Public Health faculty mentor has agreed to work with the student, the student should meet with the Public Health Student Academic Advisor to enroll in **195A**: Data Gathering and then subsequently **195B**: Thesis Writing.

Some titles of prior undergrad theses:

Prevalence and Treatment of Diabetes in Rural Tanzania

Rural vs. Urban risk and protective factors for the development of early childhood caries (ECC) in developing countries

The Biological Effects of Condom Lubricants and Public Health Policy Implications: Focus on College Culture

The Role of CIITA fusion protein in Lymphoma cancer

Biofilm Formation and the MCE operons in *Mycobacterium smegmatis*

Environmental Associations for Onchocerciasis Prevalence in the Democratic Republic of Congo

In addition, students may receive honors from the College of Letters & Science based on their overall GPA as shown below (as of 2013):

- **Honors**: 3.715 to 3.834
- **High Honors**: 3.835 to 3.92
- **Highest Honors**: 3.93 and above

XI. College Requirements and Graduation

a. Degree Requirements

In addition to completing all the requirements in the Public Health Major, students must also complete requirements from the University, Berkeley Campus and College of Letters and Science (L&S). The most current L&S requirements can be found at:

<http://ls-advise.berkeley.edu/requirements/intro.html>

1) University Requirements

- Entry Level Writing
- American History
- American Institutions

2) Berkeley Campus Requirements

- American Cultures

3) L&S Requirements

- Reading and Composition
- Quantitative Reasoning
- Foreign Language
- **Seven Course Breadth:** One course in each of seven categories, with no more than two from the same department.
 1. Arts and Literature
 2. Biological Science
 3. Historical Studies
 4. International Studies
 5. Philosophy and Values
 6. Physical Science
 7. Social and Behavioral Sciences

4) 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.

b. Degree Audit Report (DARS)

We suggest that students also periodically request a Degree Audit Report from BearFacts and review it with an L&S College advisor for satisfaction of L&S Requirements, and with the Public Health Student Academic Advisor for completion of public health requirements. The review process with the Public Health Student Academic Advisor will likely be conducted once a semester when the student requests their advisor code for Tele-bears for the following semester.

To create a DARS report, from within BearFacts, go to the “Academic Record” tab, and then the “Degree Audit Report” subtab. Select the Public Health major and then make sure to indicate the most recent year and semester (using the Catalog Year drop-down box). This way the DARS report will be created based on the correct major requirements. The link to create a new DARS report is at the top of the screen under Audits, “Request New.”

Keep in mind that DARS often makes mistakes, often of omission; for example, new Public Health courses or graduate Public Health that can meet electives may not show up on DARS, but these courses will still meet electives.

c. Graduation and Commencement (two separate events)

1) Graduation

- Graduation occurs once you have officially completed all of your degree requirements.
- You can clarify whether your anticipated graduation date is correct in the Berkeley system by going to BearFacts, clicking on “Personal,” and then selecting the “Personal Profile” tab. Your major and anticipated graduation date should both appear in this section. From this page you can also verify your completion of the University Requirements and Berkeley Campus Requirements.

2) Commencement

- Commencement is a ceremony celebrating the completion of your degree. Oftentimes this ceremony occurs prior to completion of your last final exam of your last semester.
- For the Public Health department, commencement ceremonies are usually held the first Saturday in May after finals end, although the exact date is not assigned by campus until the prior September.
- Students who complete their requirements during summer or fall of a particular year are also welcome to participate in the May commencement ceremonies of that year.

d. Receiving a Diploma

In the same way that students must declare their major, students are also responsible for declaring their candidacy for graduation. This should occur in the semester all requirements will be completed. To put yourself on the Degree List, use Tele-Bears, click on the tab of the Semester you plan to graduate in (your current semester), then Click on the “Degree List” link on the left-hand side of the page under “Registration.” From here you can select to have your diploma mailed to you a few months after you graduate for an additional fee.

If you are already on the Degree List it will be indicated on the “Home” tab of your Tele-Bears account.

Diplomas are not given out at [Commencement](#). In fact, they are not available until several months after the degrees are officially granted and posted to your official transcript. For more information or to arrange to have your diploma mailed to you, contact the [Diploma section](#) of the [Registrar's Office](#) (510-642-6765).

Your diploma will list your major as “**Public Health.**”

XII. Public Health Courses which Fulfill Breadth Requirements

- a. Arts & Literature:** none
- b. Biological Science:**
 - **PH C102:** Pathogenesis (3)
 - **PH C160:** Environmental Health and Development (4)
 - **PH 162A:** Public Health Microbiology (3)
- c. Historical Science:**
 - **PH 183:** History of Medicine (3)
- d. International Studies:**
 - **PH 112:** Global Health: A Multidisciplinary Examination (4)
- e. Philosophy & Values:**
 - **PH 116:** Seminar on Health & Medical Issues (2) [Please note that after Spring 2015, 2 unit courses such as PH 116 will no longer meet breadth requirements].
- f. Physical Science:** None.
- g. Social & Behavioral:**
 - **PH 14:** Introduction to Public Health (4)
 - **PH 150A:** Introduction to Epidemiology (3)
 - **PH 150B:** Introduction to Environmental Health Science (3)
 - **PH 150E:** Introduction to Community Health (3)
 - **PH C160:** Environmental Health and Development (4)
 - **PH 181:** Population and Poverty (3).

In addition, PH150E, Introduction to Community Health and Human Development, meets the American Cultures (AC) requirement.

XIII. Research and Internship Opportunities

a. Undergraduate Research at Berkeley

This website lists out numerous research possibilities for UC Berkeley undergraduates. For more information, visit: <http://research.berkeley.edu/>

b. Undergraduate Research Apprentice Program (URAP)

Students are encouraged to participate in the many diverse research opportunities offered through UC Berkeley. The Undergraduate Research Apprentice Program is an excellent place to connect with faculty and learn important research skills. You can find more information at: <http://research.berkeley.edu/urap/>

c. UC Berkeley's Washington Program (UCDC)

The UCDC program provides undergraduates with a unique opportunity to spend a semester (Fall or Spring) in Washington, D.C. pursuing full-time course work and an internship in their selected field. The undergraduate academic program is a major component of the U.C. Berkeley Washington Center. The Center also sponsors conferences, symposia, and policy debates, connects D.C.-based alumni with the home campus, and provides U.C. Berkeley with a physical presence in the nation's capital. For more information visit: <http://learning.berkeley.edu/ucdc/program.htm>

d. Scholarship Connection

For fellowships and scholarships which can be used to pursue research and other educational endeavors visit: <http://scholarships.berkeley.edu>

e. Health Career Connection

Offers paid summer Public Health internships in leading health organizations in Northern and Southern California, New England, New York and New Jersey. Provides exposure, experience, and mentoring for students exploring health careers. For more information visit: www.healthcareers.org.

f. STEER Program – Short Term Educational Experiences in Research in Environmental Health – <http://coeh.berkeley.edu/steer/>

XIV. Public Health Related Student Group – Cal UPHC

The mission of California Undergraduate Public Health Coalition (Cal UPHC) mission is to help students gain R.E.A.L. experience in the field of public health through Research, Education, Action, and Leadership. They are a professional organization that strives to give students the skills, experience, opportunities and support necessary to excel in the field of public health. For more information, visit: <https://sites.google.com/site/caluphcsite/>.

XV. Tips for Success

a. Selecting an Email Address

UC Berkeley campus policy mandates student use and maintenance of a Berkeley.edu email address. All administrative announcements will be sent by academic email to your @berkeley.edu address. Students are welcome to forward to alternate providers of choice, but they are responsible for all official campus emails.

Using your first and last name in the email address is oftentimes the best option. Here are a few suggestions using the name Jack Smith:

- **First Name and Last Initial:** JackS@berkeley.edu
- **First Name and Last Name:** JackSmith@berkeley.edu
- **First Initial and Last Name:** JSmith@berkeley.edu

- **Last Name:** Smith@berkeley.edu
- **Last Name and First Name:** SmithJack@berkeley.edu

b. List Serve

You will be added to the Public Health List Serve once you officially declare the major and are accepted into the Public Health major. The listserve is only for students in the major and recent graduates of the major.

c. Create a Four Year Plan

If you are really passionate about the Public Health major, then create a four year plan for yourself of all of the classes you plan on taking. This is a useful exercise as it gives you an idea of the classes you are interested in.

Some students read through the entire General Catalog to determine which courses they find interesting to make sure they are committing to the right major. Having a draft of your four-year plan, even if you keep making changes to it, is useful when discussing classes and options with advisors.

XVI. What Have Students Done with a Public Health Degree?

Depending on emphasis, the Bachelor of Arts degree in public health prepares students for graduate study in a variety of fields including public health, public policy, and nutrition. Those who choose to work after obtaining their B.A. are employed by government, private, and nonprofit organizations as survey workers, educators, and research project associates.

Internships and other public health career services are offered through the [Center for Public Health Practice](#). Additional career assistance can be found at the [UC Berkeley Career Center](#).

XVII. Preparing for Graduate School

We advise students interested in graduate school to begin developing relationships with professors early on in their academic career. If you are potentially interested in requesting a letter of recommendation from a professor in the future, they must first get to know you. Taking multiple courses from the same professor, going to office hours and working with them on research projects are all ways for them to get to know your work skills, academic prowess and personality. To enable a professor to write a strong letter of recommendation, you must put in the time to develop a relationship.

When you are ready to request recommendation letters, you may decide to use Berkeley's Letter Service. This service allows professors to submit letters of recommendation to the Career Center where they are kept on file and mailed out to prospective graduate schools or employers at your request. All requests can be handled online.

This service also lets you choose whether your letters are confidential, so institutions and corporations are assured letters are written in an unbiased

fashion by professors. Choosing confidential letters means that you as the student will NOT obtain a copy of the letter.

To write a letter of recommendation, most professors require at least three weeks advance notice. More information about the Letter Service is available at: <http://career.berkeley.edu/Letter/Letter.stm>

XVIII. Career Services

Center for Public Health Practice (CPHP):

The Center for Public Health Practice offers Public Health career related workshops in fall semester, including the weekly seminar entitled “What Can You Do with a Public Health Degree?” Leading professionals from all sectors of the Public Health field speak about emerging trends, academic preparation, career options, and great networking opportunities. Undergraduates are welcome.

CPHP also offers professional development workshops in spring semester. These workshops offer valuable practical skills & knowledge to help prepare students for Public Health practice.

Both fall and spring workshops can be taken for credit or just for exposure and skill development. Students can attend individual or all sessions. The undergraduate Public Health Association also offers numerous career events. CPHP also offers job postings for undergrads. Info: cphp-berkeley.edu.

Career Center:

People in the Career Center are available to discuss job opportunities in the field of Public Health. There are a number of ways to connect with them such as 15-minute Mini-Appointments, 45-minute Regular Appointments, Drop-in time and Peer Advisors. Details can be found on the Career Center website: <http://career.berkeley.edu/Info/MakeAppt.stm>

You can also sign up for Career Mail here: <http://career.berkeley.edu/MailList/MailList.asp>

Information about Career Fairs, Internships, writing your resume and much more can be found here: <http://career.berkeley.edu/Tools/Tools.stm>

XIX. Resources

College of Letters & Science Advising: <http://ls-advise.berkeley.edu>

Career Center: <http://career.berkeley.edu>

Student Learning Center: <http://slc.berkeley.edu>

UCB Library: <http://lib.berkeley.edu>

Undergraduate Research at Berkeley: <http://research.berkeley.edu>

UCB News, Events and Speakers: <http://www.berkeley.edu/calendar>
Your Disease Risk (Harvard SPH): www.yourdiseaserisk.harvard.edu
PubMed: www.pubmed.com
Association of Schools of Public Health: www.asph.org/index.cfm
American Public Health Association: <http://apha.org/>

XX. Frequently Asked Questions about the Public Health Major

a. Can I double major?

Students are generally advised to not seek a double major, for a variety of reasons, including having a negative impact on grades and scheduling conflicts. Instead, a minor (such as Global Poverty and Practice, Public Policy, Education, Nutrition, Demography, Geographic Information Science, and most languages) works much better both for scheduling and for time constraints. However, it may be possible to do a double major; discussing with the adviser is crucial.

Of importance is why a student wants to double major. Originally, the double major was developed for those students who could not decide between two majors and wanted to do both. Now, many students feel that double majoring will make them “competitive” for graduate or medical school, or that since their roommates are doing a double major, they should do one also.

These are not really valid reasons to do double majors: in regards to medical school, a case study of a recent Cal graduate illustrates how doubling is not essential for medical school admission, and actually could be a hindrance.

b. The major's web page states that students usually declare at the end of their sophomore year. If I finish all of the prerequisites for the major by the end of my sophomore year, am I guaranteed to be able to major in public health?

Completing all the pre-requisites does **not** guarantee you placement in the major. Entering the major depends on your position on the waitlist in combination with the completion of the pre-requisites.

c. Can I take courses at a community college or use AP credits and have it be transferable to count for my pre-requisites?

Yes. However, you must complete the courses required for the major at Cal. High school AP coursework can be accepted for the social sciences (a 4 or 5 in any of the following: AP government for either Poli Sci 2 or 4; both AP micro and macro economics for either Econ 1, 2, or 3; AP Psychology for either Psych 1 or Psych 2).

d. How do I know whether a course I took at a community college is transferable to UC Berkeley?

Check the “ASSIST” website, which is the official site for courses from other

colleges transferable to the University of California at <http://www.assist.org/web-assist/welcome.html>

- ASSIST is an online student-transfer information system that shows how course credits earned at one public California college or university can be applied when transferred to another. ASSIST is the official repository of articulation for California's public colleges and universities and provides the most accurate and up-to-date information about student transfer in California.

e. Do I need to complete my Reading & Composition, American Cultures, and/or breadth requirements before declaring a Public Health major?

While the R&C requirements must be met before declaring any major (Public Health included), the American Cultures and the breadths can be completed at any time during your undergraduate career.

f. If I've already taken a Social Science class that satisfies my American Cultures requirement, can I also use it to satisfy the School of Public Health Social Science requirement? Yes.

g. What prerequisites do I need to take Bio 1A/L?

The prerequisites have changed; students now only need Chem 1A/L. However, the full series of chemistry (Chem 3A/L, Chem 3B/L) is strongly recommended.

h. What do I do to get on the degree list?

Students can put themselves on the degree list through Telebears; if it is late in the semester, they can also use [this form](#).

i. Can I take PH graduate courses as an undergrad?

Possibly, it depends on the student and their preparation. Generally such interested students should first contact the instructor for approval. If granted, then the student may be able to use the course towards electives.

XXI. Academic Honesty/Student Conduct:

As with all other programs on campus, the faculty and staff of the Public Health Undergraduate Program take issues concerning academic honesty and student conduct very seriously, particularly with issues involving plagiarism. So there is no misunderstanding about what constitutes plagiarism, all students are encouraged to review the information presented at the site for the Center for Student Conduct: <http://campuslife.berkeley.edu/conduct>.