PUBLIC HEALTH STUDIES

http://krieger.jhu.edu/publichealth/

Public Health combines a prevention orientation with a population perspective in pursuit of better health for all members of society. Public health professionals deal with critical large-scale issues such as access to health care; chronic disease control; mapping, predicting, and containing outbreaks of infectious disease; as well as researching factors that contribute to health outcomes such as gender, poverty, and education. Public Health has close ties with medicine through research, clinical practice, and formulating policy.

The Public Health Studies Program offers undergraduates a major that links them to the world of public health through core courses taken on the Homewood campus, as well as electives taken at the Johns Hopkins Bloomberg School of Public Health (JHSPH).

Core course work at Homewood includes Fundamentals of Epidemiology, Environment and Your Health, Fundamentals of Health Policy and Management, Biostatistics, Social and Behavioral Health, as well as a year of Biology and Calculus I. Students will select additional public health coursework from a range of options that include the natural sciences, health economics, medical anthropology, disparities in health and access to health care, the history of science and medicine, and demography. The major is flexible and easily adapted to further course work in the natural sciences and historically about two-thirds of Public Health Studies majors complete the premedical core curriculum.

Public Health Studies majors also complete the Public Health Applied Experience as part of their undergraduate degree requirements. This involves a supervised, hands-on experience working with public health professionals. The goal of the applied experience requirement is to ensure that students have practical public health exposure in a clinical, research, or community setting. Find more information at http://krieger.jhu.edu/publichealth/academics/AE-Main.

The Johns Hopkins Bloomberg School of Public Health is the oldest and largest school of public health in the United States. Although its primary function is as a graduate school, seniors majoring in public health studies take a semester’s worth of courses there in fulfilling their B.A. degree requirements. Many students get involved in ongoing research projects at JHSPH such as developing malaria vaccine, investigating hospital patient safety protocols or assessing the links between poverty and poor health.

Available course work at JHSPH includes the following areas: health education, environmental health sciences, epidemiology, health finance and management, health policy, human genetics, immunology and infectious diseases, international health, maternal and child health, mental health, nutrition, occupational medicine/health protection and practice, population studies, toxicology, and tropical medicine, among others.

An honors option is available to Public Health Studies seniors with a major GPA of 3.3. Public Health Honors students work in a research capacity under the supervision of a JHU faculty member and with the guidance of the Director of the Public Health Studies program. Students register for 280.495 Honors in Public Health Seminar in the fall and 280.499 in the spring. Interested students should discuss their plans with the Director of the Public Health Studies program in the spring of their junior year.

Many Public Health Studies students have pursued international public health internships and study abroad opportunities both during the academic year and over the summer. In addition to a wide array of general options available through the JHU Office of Study Abroad, the PHS program has established two public-health specific annual programs: Intersession (3 1/2 weeks) in Uganda and Summer (7 weeks) in South Africa. Each includes both academic and applied components and allows students to earn graded JHU credits which can be used toward the Public Health Studies major. The Uganda program compares health issues in urban and rural settings, while the South Africa program closely investigates the impact of the HIV epidemic on prevention measures and healthcare delivery in that country. For more information, go to krieger.jhu.edu/publichealth/academics/study-abroad/.

The Public Health Studies office is located in the 3505 North Charles Building second floor, adjacent to the Homewood campus. Public Health Studies advisors may be consulted about the various courses, careers, and graduate programs in public health on a walk-in basis or by appointment. Information can also be obtained by emailing phstudies@jhu.edu or at http://krieger.jhu.edu/publichealth.

Bachelor of Arts/Masters Program

The Bachelor of Arts/Master of Health Sciences (BA/MHS) and Bachelor of Arts/Master of Sciences in Public Health (BA/MSPH) programs are a coordinated academic collaboration between the Krieger School of Arts and Sciences and the Johns Hopkins Bloomberg School of Public Health. It enables talented and committed Public Health Studies Program majors to complete a BA and master’s degree from the School of Public Health in five to six years.

The Department of Environmental Health Sciences, Department of Epidemiology and Department of Mental Health will consider JHU undergraduates majoring in Public Health Studies for admission to the BA/MHS program. The Department of Environmental Health Sciences also offers a BA/MSM in Occupational and Environmental Hygiene. The Department of Health Policy and Management offers a BA/MSM in Health Policy.

Public Health Studies students apply for early admission during their junior year. Admitted students must complete the BA degree before formally enrolling in the graduate school, but up to 16 of the public health credits earned inter-divisionally toward the BA may also apply toward the MHS or MSPH degree. In addition, students in this program will receive co-advising from both schools to optimize their academic experience. Find more information at http://krieger.jhu.edu/publichealth/academics/.

Public Health Studies Program Advisory Board

The Public Health Studies Program Advisory Board reviews the progress and status of the Public Health Studies Program. Members provide advice and guidance on issues that are vital to a successful program, such as faculty appointments, curriculum reviews, utilization of university resources, and new funding opportunities.

One designated Public Health Studies Alumni serves a 2-year term on the committee.

Board Members

Krieger School of Arts and Sciences
Joel Schildbach; Vice Dean for Undergraduate Education; Professor (Biology)
Requirements for the B.A. Degree
Also see Requirements for a Bachelor’s Degree (http://e-catalog.jhu.edu/undergrad-students/academic-policies/requirements-for-a-bachelors-degree).

All major requirements must be taken for a letter grade. Course taken satisfactory/unsatisfactory do not apply towards the major with some exceptions for the applied experience requirement. Major requirements are as follows:

Courses at Homewood

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS.110.106</td>
<td>Calculus I (Biology and Social Sciences)</td>
<td>4</td>
</tr>
<tr>
<td>or AS.110.108</td>
<td>Calculus I</td>
<td></td>
</tr>
<tr>
<td>AS.280.101</td>
<td>Introduction to Public Health</td>
<td>3</td>
</tr>
<tr>
<td>AS.280.xxx Inquiry and Communication in Public Health</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AS.280.335</td>
<td>The Environment and Your Health</td>
<td>3</td>
</tr>
<tr>
<td>AS.280.340</td>
<td>Fundamentals of Health Policy &amp; Management</td>
<td>3</td>
</tr>
<tr>
<td>AS.280.345</td>
<td>Public Health Biostatistics</td>
<td>4</td>
</tr>
<tr>
<td>AS.280.350</td>
<td>Fundamentals of Epidemiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Two courses in biology and one corresponding lab: 9-10

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS.020.151</td>
<td>General Biology I</td>
<td>3</td>
</tr>
<tr>
<td>&amp; AS.020.153</td>
<td>General Biology Laboratory I</td>
<td></td>
</tr>
<tr>
<td>AS.020.152</td>
<td>General Biology II</td>
<td>3</td>
</tr>
<tr>
<td>&amp; AS.020.154</td>
<td>General Biology Lab II</td>
<td></td>
</tr>
<tr>
<td>AS.020.305</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>&amp; AS.020.315</td>
<td>Biochemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>AS.020.306</td>
<td>Cell Biology</td>
<td>3</td>
</tr>
<tr>
<td>&amp; AS.020.316</td>
<td>Cell Biology Lab</td>
<td></td>
</tr>
</tbody>
</table>

Select two introductory social science courses from Table 1. 6
Students matriculating Fall 2017 or later must take these from two different departments.

Select one course to satisfy the core competency in the social and behavioral aspects of public health:

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<tbody>
<tr>
<td>AS.230.341</td>
<td>Sociology of Health and Illness</td>
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</tr>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>or AS.280.37 Cultural Factor Of Public Health</td>
<td></td>
<td></td>
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</tbody>
</table>

Three public health courses at the 200-400 level offered on the Homewood campus 9
Ten credits of courses at the Bloomberg School of Public Health * 10
Applied clinical or community-based experience ** 0-3

* Requirements at JHSPH
Fifteen (15) units of courses are taken at the Johns Hopkins Bloomberg School of Public Health in the student's fourth year. This is equivalent to 10 Homewood credits. Within the 15, students must create an 8 unit focus in one particular area, topic, or department. Other courses may be taken in any department. These courses may not be independent research/special study, taken S/U or online.

** Applied Experience
Public health studies majors will complete one (1) approved applied clinical or community-based experience. A minimum of 80 hours of applied work is required along with a synthesizing assignment. Additional information about this requirement is available here (http://krieger.jhu.edu/publichealth/academics/AE-Main)

Sample Program
A typical program might include the following sequence of courses:

Freshman

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</tr>
</tbody>
</table>

Junior

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
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<td>The Environment and Your Health</td>
<td>3</td>
</tr>
<tr>
<td>AS.280.345</td>
<td>Public Health Biostatistics</td>
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</tbody>
</table>

Three public health courses at the 200-400 level offered on the Homewood campus 9
Ten credits of courses at the Bloomberg School of Public Health * 10
Applied clinical or community-based experience ** 0-3

Epidemiology, if not taken Sophomore year OR Applied Experience 0-3

* Requirements at JHSPH
Fifteen (15) units of courses are taken at the Johns Hopkins Bloomberg School of Public Health in the student's fourth year. This is equivalent to 10 Homewood credits. Within the 15, students must create an 8 unit focus in one particular area, topic, or department. Other courses may be taken in any department. These courses may not be independent research/special study, taken S/U or online.

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Public health studies majors will complete one (1) approved applied clinical or community-based experience. A minimum of 80 hours of applied work is required along with a synthesizing assignment. Additional information about this requirement is available here (http://krieger.jhu.edu/publichealth/academics/AE-Main)
Upper Level Public Health Elective (200-400 level) 3
Upper Level Public Health Elective (200-400 level) 3
Upper Level Public Health Elective (200-400 level) 3

6-9 3-6

Bloomberg School of Public Health Courses

(Honors) 3 (Honors) 3

7-9 7-9

Total Credits: 66-76

Table 1

Approved Introductory Level Social Science Courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS.060.155</td>
<td>Expository Writing: Introduction to the Research Paper - Controversies in Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>AS.070.132</td>
<td>Invitation to Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>AS.140.105</td>
<td>History of Medicine</td>
<td>3</td>
</tr>
<tr>
<td>AS.140.106</td>
<td>History of Modern Medicine</td>
<td>3</td>
</tr>
<tr>
<td>AS.140.146</td>
<td>History of Public Health in East Asia</td>
<td>3</td>
</tr>
<tr>
<td>AS.150.219</td>
<td>Introduction to Bioethics</td>
<td>3</td>
</tr>
<tr>
<td>AS.180.101</td>
<td>Elements of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>AS.180.102</td>
<td>Elements of Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>AS.190.220</td>
<td>Global Security Politics</td>
<td>3</td>
</tr>
<tr>
<td>AS.190.284</td>
<td>Classics of Political Theory: Political Freedom</td>
<td>3</td>
</tr>
<tr>
<td>AS.200.101</td>
<td>Introduction To Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AS.200.110</td>
<td>Introduction to Cognitive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AS.200.132</td>
<td>Introduction to Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AS.200.133</td>
<td>Introduction to Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AS.200.209</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>AS.200.212</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AS.200.222</td>
<td>Positive Psychology</td>
<td>3</td>
</tr>
<tr>
<td>AS.230.101</td>
<td>Introduction Sociology</td>
<td>3</td>
</tr>
<tr>
<td>AS.230.150</td>
<td>Issues in International Development</td>
<td>3</td>
</tr>
<tr>
<td>AS.271.107</td>
<td>Introduction to Sustainability</td>
<td>3</td>
</tr>
<tr>
<td>AS.280.103</td>
<td>Public Health, Policy and Politics: A Primer</td>
<td>3</td>
</tr>
<tr>
<td>AS.360.247</td>
<td>Introduction to Social Policy: Baltimore and Beyond</td>
<td>3</td>
</tr>
<tr>
<td>EN.570.108</td>
<td>Introduction Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>EN.570.110</td>
<td>Introduction to Engineering for Sustainable Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Honors in Public Health Studies

An honors option is available to Public Health Studies seniors with a major GPA of 3.3. Public Health Honors students work in a research capacity under the supervision of a JHU faculty member. Students register for AS.280.495 Honors in Public Health - Seminar in the fall and AS.280.499 Honors in Public Health in the spring. Interested students should discuss their plans with Dr. Jennifer Schrack (jschrack@jhsph.edu) in the spring of their junior year. Students may not count the honors courses towards any other requirement of the major; they are in addition to major requirements.

For current faculty and contact information go to http://krieger.jhu.edu/publichealth/directory/

Faculty
Program Director
Maria Bulzacchelli
PhD; Assistant Research Professor; Director, Undergraduate Program in Public Health Studies

Assistant Director
Lisa Folda
M.H.S.; Lecturer (Public Health Studies); Academic Advisor.

Academic Advisor
Laura Foster
PhD; Academic Advisor (Public Health Studies)

Katherine Henry
PhD; Academic Advisor (Public Health Studies).

Faculty
Stanley Becker
Professor (Population, Family, and Reproductive Health).

Peter Beilenson
Associate (Public Health Studies).

David Bishai
Professor (Population, Family, and Reproductive Health).

Lee Bone
Associate Professor (Health, Behavior, and Society).

Joseph Bressler
Professor (Environmental Health and Engineering)

Lawrence Cheskin
Associate Professor (Health, Behavior, and Society).

Darrell Gaskin
Professor (Health Policy and Management).

Leah Jager
Assistant Scientist (Biostatistics).

Megan Latshaw
Assistant Scientist (Environmental Health and Engineering)

Philip Leaf
Professor (Mental Health).

Darcy Phelan-Emrick
Assistant Scientist (Epidemiology).

Jennifer Schrack
Assistant Professor (Epidemiology).

Margaret Taub
Assistant Scientist (Biostatistics).

Peter Winch
Professor (International Health).

Scott Zeger
Professor (Biostatistics and Epidemiology).

James Yager
Courses

AS.280.100. Public Health in Film and Media. 1.0 Credit.
This course uses film to explore and question the cultural landscape of public health in today’s society. Public health is a richly diverse field that reaches not only into many areas of daily life, but into our cultural imagination as well. The purpose of this class is to examine how public health matters such as epidemic disease, access to health care, health and the law, bioethics, neglected tropical diseases and other topics are portrayed in feature films and documentaries. Each week students will view and discuss a film or documentary that addresses a public health issue.
Instructor(s): L. Folda, L. Foster
Area: Social and Behavioral Sciences.

AS.280.101. Introduction to Public Health. 3.0 Credits.
This course provides an overview of the field of public health. Topics include the major causes of morbidity and mortality; the socioeconomic, behavioral, and environmental factors that affect health; the analytical methods used in the field; the role of government in protecting the public’s health; key features of the U.S. health care system; and current challenges in the field. The course also introduces students to the basic conceptual models and approaches that are central to public health practice.
Instructor(s): M. Bulzacchelli
Area: Social and Behavioral Sciences.

AS.280.103. Public Health, Policy and Politics: A Primer. 3.0 Credits.
Combining basic tenets of public health with real-life examples of public health practice in Baltimore, the course will provide an introduction to the field of public health. Throughout the course a major effort will be made to expose students to the wide array of opportunities that are available to those pursuing a career in public health.
Instructor(s): P. Beilenson
Area: Social and Behavioral Sciences.

AS.280.110. Evidence in Epidemiology and Popular Culture. 3.0 Credits.
In the past year, we have witnessed a broad range of controversial issues: from Ebola to anti-vaxers; protests in Ferguson and New York; the legalization of marijuana and Obamacare. Often the theories of health that experts develop and promote don’t resonate with the public they are intended to serve. Often times, different people interpret the same piece of evidence in very different ways. This course will teach students how to think critically about theories of health and disease and to develop communication skills to talk about public health in everyday conversation.
Instructor(s): A. Buttress
Area: Humanities, Social and Behavioral Sciences.

AS.280.120. Lectures on Public Health and Wellbeing in Baltimore. 1.0 Credit.
An introduction to Urban Health with Baltimore as a case study: wellbeing, nutrition, education, violence and city-wide geographic variation. Lectures by JH Faculty, local government/service providers and advocates.
Instructor(s): P. Leaf
Area: Social and Behavioral Sciences.

AS.280.203. Introduction to International Nutrition. 1.0 Credit.
The course presents a broad overview of international public health nutrition, including: main nutritional problems in developing countries, causes and consequences of malnutrition, and multi-level approaches for the prevention and treatment of malnutrition. Grades will be based on class attendance, participation, and a presentation that describes the key nutrition indicators for a low-income country of the student’s choice, and proposes an intervention to address the country’s nutrition challenges.
Instructor(s): J. Emerson

AS.280.220. Baltimore and The Wire: A focus on major urban issues. 3.0 Credits.
Playing off the themes raised in the HBO series "The Wire", this course will provide an introduction to major issues confronting Baltimore and other American urban centers through a series of lectures by policy makers in the region.
Instructor(s): P. Beilenson
Area: Social and Behavioral Sciences.

AS.280.224. Health, Homelessness & Social Justice. 3.0 Credits.
Homelessness is bad for one’s health, and its existence, persistence, and growth demonstrate deep policy failures and social ills. This course examines issues fundamental to the modern phenomena of homelessness in the U.S. – and the connection between disparate health and desperate inequality. There are ethical values and dimensions to the decisions we make about health policy – and public policy generally. Life, liberty, the pursuit of happiness, equality, justice, community, democracy, human rights, and human flourishing; there are many values that we might prioritize – both individually and collectively – as we develop and assess programs, policies, and systems. In this course, we will consider these and other values together with issues of health and homelessness. We will also examine tools of policy analysis and political action, and how those committed to changing the world can use those tools to engage that system critically.
Instructor(s): A. Schneider
Area: Social and Behavioral Sciences.

AS.280.225. Population, Health and Development. 3.0 Credits.
This course will cover the major world population changes in the past century as well as the contemporary situation and projections for this century. Topics include rapid population growth, the historical and continuing decline of death and birth rates, contraceptive methods as well as family planning and child survival programs, population aging, urbanization, population and the environment and the demographic effects of HIV/AIDS.
Prerequisites: Students who have taken AS.230.225 may not take AS.280.225.
Instructor(s): S. Becker
Area: Social and Behavioral Sciences.

AS.280.226. Mini-Term: Urban Environments and Public Health. 3.0 Credits.
Introduction to physical and social environmental systems issues affecting the health of several marginalized populations (eg. immigrants, impoverished and homeless). The course will primarily use Baltimore as the field for experiential learning, and will incorporate cross-cultural discussions, a variety of readings, and guest lecturers from Hopkins faculty and industry experts. Course will meet for two weeks: from July 7th through 18th.
Instructor(s): A. Rule
Area: Social and Behavioral Sciences.
**AS.280.232. Applications of Precision Medicine in Public Health. 1.0 Credit.**
This course will (1) introduce students to principles of precision medicine (PM) across the care continuum and (2) engage students to think critically about how PM will change the medical and public health landscape. Students will learn about the PM initiative and current examples of PM in disease prevention, diagnosis, treatment and surveillance. Students will identify challenges associated with incorporating PM into our health care system and discuss strategies to mitigate such challenges.
Instructor(s): M. Roberts.

**AS.280.302. GIS as a Public Health Tool. 3.0 Credits.**
This course provides an introduction to Geographic Information Systems (GIS) and presents its utility in the various fields of public health such as Epidemiology, Environmental Health and International Health. Provides exposure to GIS as a tool for describing the magnitude of health problems and for supporting health decision making. Course topics include a historical overview of the intersection between geography and public health; current epidemiological use of GIS; and, GIS applications in identifying public health problems such as the current Ebola outbreak. This course is ideal for students who desire exposure to the vast utility of GIS as it applies to public health.
Instructor(s): J. Ferguson
Area: Quantitative and Mathematical Sciences, Social and Behavioral Sciences.

**AS.280.303. Responding to Disasters: From Earthquakes to Ebola. 3.0 Credits.**
Responding to Disasters: from Earthquakes to Ebola introduces students to the fundamentals of humanitarian and disaster response. The course is divided into four topic areas: (1) fundamentals of humanitarian emergencies, (2) methods in humanitarian emergency settings, (3) refugee health, and (4) emerging issues in humanitarian response.
Instructor(s): J. Freeman
Area: Social and Behavioral Sciences.

**AS.280.312. Media, Politics, and Evidence in the History of Public Health. 3.0 Credits.**
This writing intensive course will encourage students to consider what counts as evidence among public health professionals as well as popular audiences. Using case studies from the field of epidemiology, now emblematic of the field, students will learn about historical changes in theories of population health and disease. Through a series of writing assignments, students will interrogate the formal structure of scientific arguments and gain practice in synthesizing and communicating complex ideas to a lay audience. Juniors/Seniors Only
Prerequisites: Prerequisite/Corequisite: AS.280.350
Instructor(s): A. Buttress
Area: Humanities, Social and Behavioral Sciences Writing Intensive.

**AS.280.313. The Germ Theory in Literature. 3.0 Credits.**
The Germ Theory in Literature is a writing course for science and public health majors, and for writing majors interested in science and public health. We examine the use of germs in popular literature, from 1900 to the present (with works by Paul de Kruif, Sinclair Lewis, Milton Silverman, Berton Roueché, Richard Preston, Laurie Garrett and John Barry). Students examine what happens to science when it is popularized in mainstream literature, and learn to write essays and opinion pieces using crisp, clear and purposeful prose. This course includes a writing workshop.
Instructor(s): K. Masterson
Area: Humanities Writing Intensive.

**AS.280.320. Seminar on Public Health and Well-being in Baltimore. 3.0 Credits.**
Seminar combines lectures from AS.280.120 with additional readings and discussion to more deeply address urban health issues. The course will revolve around student projects that can impact health and wellbeing in Baltimore. If you are accepted for this course do NOT register for AS.280.120. Course registration is by instructor permission only. You will be asked to provide a brief description of a project in order to determine your potential linkage with this course. This course is utilizing the online active approval process. Permission requests should be submitted via SIS Self-Service upon the opening of your registration period. The instructor will review requests and approve registrations using SIS Self-Service for Faculty. Please note, a request does not guarantee registration into the course. Status inquiries should be addressed to the instructor or departmental administrator.
Instructor(s): P. Leaf
Area: Social and Behavioral Sciences.

**AS.280.325. Public Health in South Africa. 3.0 Credits.**
This course provides an in-depth overview of Public Health in South Africa, including material on the political climate, health care services, and the impact of the HIV/AIDS epidemic. Course is taught in Cape Town, South Africa.
Instructor(s): M. Smart
Area: Social and Behavioral Sciences.

**AS.280.326. Community-Based Learning in South Africa. 3.0 Credits.**
3 Credit course taught in Cape Town, South Africa. This course may be used to satisfy the Public Health Applied Experience requirement. Students will participate in a community-based service learning program with a local NGO in Cape Town.
Instructor(s): M. Smart
Area: Social and Behavioral Sciences.

**AS.280.329. The Good, the Bad, and the Ugly: Scientific Writing in Public Health. 3.0 Credits.**
This course covers how to conduct a literature review, and interpret and evaluate scientific literature that focuses on public health. In addition, this course will provide students with fundamental skills of writing a scientific manuscript. Skills obtained in this course will prepare students for advanced-level senior year classes at Bloomberg and other graduate institutions.
Prerequisites: AS.280.350;AS.280.345
Instructor(s): R. Thorpe
Area: Social and Behavioral Sciences Writing Intensive.
AS.280.335. The Environment and Your Health. 3.0 Credits.
This course surveys the basic concepts underlying environmental health sciences (toxicology, exposure assessment, risk assessment), current public health issues (hazardous waste, water- and food-borne diseases), and emerging global health threats (global warming, built environment, ozone depletion, sustainability). Public Health Studies, Global Environmental Change and Stability, and Earth and Planetary Science majors have 1st priority for enrollment. Your enrollment may be withdrawn at the discretion of the instructor if you are not a GECS, PHS, or EPS major.
Instructor(s): J. Bressler; J. Yager; M. Latshaw
Area: Natural Sciences.

AS.280.340. Fundamentals of Health Policy & Management. 3.0 Credits.
Through lectures and small group discussions, students will develop a framework for analyzing health care policy problems and gain familiarity with current issues including managed care, Medicare and the uninsured.
Instructor(s): D. Gaskin
Area: Social and Behavioral Sciences.

AS.280.345. Public Health Biostatistics. 4.0 Credits.
Using problem-based learning focusing on public health topics, students learn to describe & summarize data, make inferences regarding population parameters, & test hypotheses. Recommended Course Background: Four years of high school math.
Prerequisites: Statistics Sequence restriction: students who have completed any of these courses may not register: EN.553.211 OR EN.553.230 OR AS.200.314 OR AS.200.315 OR EN.553.310 OR EN.553.311 OR EN.560.435 OR EN.553.420 OR EN.553.430 OR EN.560.348
Instructor(s): L. Jager; M. Taub
Area: Quantitative and Mathematical Sciences.

AS.280.346. Advanced Biostatistics Laboratory. 1.0 Credit.
As a complementary course to 280.345, Public Health Biostatistics, this course teaches R programming skills necessary for conducting independent data analyses, beyond those presented in the main course. No programming experience is necessary, but a willingness to learn independently and work with other students is indispensable.
Prerequisites: Corequisite: AS.280.345
Corequisites: AS.280.345
Instructor(s): L. Jager; M. Taub
Area: Quantitative and Mathematical Sciences.

AS.280.347. Health Data Analysis Practicum. 2.0 Credits.
Students will learn to formulate precise scientific and policy questions, design exploratory and confirmatory statistical analyses to address the questions, conduct appropriate analyses using the statistical package R, and communicate their findings through graphical and tabular displays that are presented in writing and in person. The course will be run in a seminar style in which students conduct data analysis to present to one another in one meeting per week. Evaluation will be through class participation and a final project in which students will analyze their own data set to address a question of their choice. Students need to have taken an introductory statistics course at the level of AS.280.345 (Public Health Biostatistics) and must have some experience using the statistical software R to perform basic analyses.
Instructor(s): L. Jager; M. Taub
Area: Quantitative and Mathematical Sciences.

AS.280.350. Fundamentals of Epidemiology. 4.0 Credits.
A practical introduction to epidemiology focusing on the principles and methods of examining the distribution and determinants of disease morbidity and mortality in human populations. Juniors and seniors only.
Instructor(s): I. Saldanha
Area: Quantitative and Mathematical Sciences.

AS.280.360. Clinical & Public Health Behavior Change. 3.0 Credits.
This course explores the theory and practice of changing the health behaviors of individuals, and the public health and medical impact of doing so. Theoretical concepts are integrated with practical clinical applications, especially in the areas of diet and fitness. Skill building in persuasive, health-related communication will be included in smaller group discussions.
Instructor(s): L. Cheskin
Area: Social and Behavioral Sciences.

AS.280.375. Cultural Factor Of Public Health. 3.0 Credits.
This course covers the influence of culture on public health, health policy, management and practice. It also provides background on disparities in health in the US with a particular focus on race, place, and poverty. Guest speakers include healthcare providers, managers, and policy-makers.
Instructor(s): C. Furr-Holden; T. Laveist
Area: Social and Behavioral Sciences.

AS.280.380. Global Health Principles and Practices. 3.0 Credits.
Global health addresses the staggering global disparities in health status, drawing on epidemiology, demography, anthropology, economics, international relations and other disciplines. We review patterns of mortality, morbidity and disability in low and middle income countries, starting with malnutrition, infectious diseases and reproductive health, and continuing to an emerging agenda including mental health, injury prevention, surgical care, chronic diseases, and health impacts of climate change. Gender, health systems and health workforce challenges, and career trajectories in global health are also discussed. Recommended course background: Minimum of one prior course in Public Health.
Instructor(s): P. Winch
Area: Social and Behavioral Sciences.

AS.280.399. Community Based Learning - Practicum Community Health Care. 3.0 Credits.
This course is designed to expose students to urban health with focus on Baltimore City through lectures, class discussions, and experiential learning. Students will select a community-based organization (CBO) according to their expressed interests and schedule in order to complete 45 hours of service based learning. Grades are based on participation, completion of service learning project, presentation, and papers. Open to Junior Public Health Studies majors only. Others by permission of instructor.
Instructor(s): J. Goodyear; L. Bone; L. Foster
Area: Social and Behavioral Sciences.
How does U.S. military policy impact global and national public health? Do U.S. military missions promoted as humanitarian assistance, such as those in Africa and Afghanistan, compromise global development and independent humanitarian action programs? Did the CIA’s covert use of a vaccination program in Pakistan as cover for intelligence gathering threaten the success of global immunization campaigns? How have vaccines and drugs developed for U.S. military use benefited global public health? These topics and much more will be the focus in this seminar that explores consequences within conflict zones and the developing world, and among military personnel and veterans. Gordis Teaching Fellowship course. Juniors and Seniors Public Health Studies majors only.
Instructor(s): R. Nevin
Area: Social and Behavioral Sciences.

AS.280.407. Public Health and Disasters. 3.0 Credits.
This course will introduce students to the public health component of preparedness and response to common emergencies, including the public health implications of such situations and the role of public health agencies and practitioners. The course will employ an all-hazard perspective, including emerging infections, natural disasters, and terrorism. Students will understand the public health community’s role in preparing for and responding to disasters through case studies, discussion, debate, and material related to the national public health preparedness infrastructure. Juniors and seniors Public Health Studies majors only. Gordis Teaching Fellowship course. Recommended Course Background: AS.280.335
Instructor(s): N. Errett
Area: Social and Behavioral Sciences.

AS.280.408. Youth Violence Prevention: A Public Health Approach. 3.0 Credits.
Examines the causes, consequences, and prevention of violence committed by or against young people through a public health lens. Introduces effective prevention strategies, underscoring the important role of youth leadership and advocacy to prevent violence. Juniors and seniors Public Health Studies majors only. Gordis Teaching Fellowship course. Recommended Course Background: AS.280.350
Instructor(s): J. Bottiani
Area: Social and Behavioral Sciences.

AS.280.409. Health Systems Challenges from Chronic Diseases in Low and Middle Income Countries. 3.0 Credits.
This course provides a multidimensional health systems approach to chronic diseases, presently the largest population health burden in low and middle income countries. Learning tools include patient interviews, in-class debates, and country case studies. Recommended course background: AS.280.350: Fundamentals of Epidemiology. Gordis Teaching Fellowship course open to junior and seniors only.
Instructor(s): M. Socal
Area: Social and Behavioral Sciences.

AS.280.410. Disease Detectives and the History of Epidemiology. 3.0 Credits.
Through a series of historical case studies we will explore the changing ideas and assumptions that have shaped our struggles to understand and improve health in the United States. Juniors and Seniors Public Health Studies majors only. Gordis Teaching Fellowship course. Recommended Course Background: AS.280.350
Instructor(s): A. Buttress
Area: Humanities, Social and Behavioral Sciences.

AS.280.411. Where You Live Matters*: The Role of "Place" in Racial/Ethnic Health Disparities. 3.0 Credits.
This course will critically examine the impact of place of residence on health outcomes, and on racial/ethnic health disparities. This will be accomplished by examining different definitions and levels of "place", and assessing the impact of each on various health outcomes and racial/health disparities. The role of "place" will be examined in the development of interventions targeting racial/ethnic health disparities. Juniors and seniors Public Health Studies majors only. Gordis Teaching Fellowship course.
Instructor(s): C. Bell
Area: Social and Behavioral Sciences.

AS.280.412. The HIV/AIDS Pandemic: An Enquiry Concerning Epidemiologic Understanding. 3.0 Credits.
Students will gain an understanding of the epidemiology of HIV/AIDS that will serve as basis for illustrating modern epidemiologic theory, methods, and practice. Topics will include a review of the natural history and pathogenesis of HIV/AIDS, the spread and current geography of the disease, contemporaneous prevention strategies, and the impact of antiretroviral therapies at the individual and population level. Throughout, a focus on the methods and mindset of epidemiologic enquiry will be emphasized. This will include how epidemiological approaches for characterizing populations, measurements, and inference can be used to build the evidence for public health action. Students will learn through critical analysis and discussion of the peer-reviewed literature coupled with evaluations using short quizzes and a final group presentation. Gordis Teaching Fellowship course. Recommended Course Background: AS.280.345
Prerequisites: Prerequisite/Corequisite: AS.280.350
Instructor(s): P. Rebeiro
Area: Natural Sciences, Social and Behavioral Sciences.
AS.280.413. Information Communication Technology (e/mHealth) for Health Systems Strengthening. 3.0 Credits.
This course explores the emerging landscape of information and communication technology in public health, such as e/mHealth, through concepts and frameworks of health systems research with a focus on low and middle income countries (LMICs). It is designed to comprehensively address various aspects of e/mHealth including policy aspects of health systems governance, community aspects of health service delivery, economic aspects of the healthcare market, technological aspects of health information infrastructure, and individual aspects of self-monitoring/management. Multidisciplinary approaches will be encouraged to understand complex public health challenges and to suggest creative yet feasible solutions in low resource settings. Successful e/mHealth use cases across countries with various health system contexts will be introduced and discussed. The course is intended for undergraduate students interested in how information and communication technology is likely to affect health care in the future. Gordis Teaching Fellowship course open to Junior and Senior Public Health Majors only.
Instructor(s): Y. Jo
Area: Social and Behavioral Sciences.

AS.280.414. Leading Health Care Organizations. 3.0 Credits.
This seminar course is designed for students who seek an understanding of how to manage health care organizations including management processes, organizational structures, types of governance models and management issues of health care delivery systems. This course is designed to provide participants with an understanding of leadership and organizational behavior within health care organizations (HCOs). In this course, students will become skilled at identifying the forces that challenge the effective management of HCOs at multiple levels – individual, group and organization. Moreover, they will become skilled at developing and analyzing efforts to improve HCOs’ performance. Through case studies, readings, in-class exercises and class discussions, participants will learn analytic frameworks, concepts, tools and skills necessary for leading and management organizational learning, innovation and overall performance improvement in health care organizations. Gordis Teaching Fellowship course open to junior and seniors only.
Instructor(s): K. Henderson
Area: Social and Behavioral Sciences.

AS.280.415. Comparative Health Systems and Health Reform. 3.0 Credits.
The course explores the structural components of modern health care systems through a comparative approach. Students will develop a toolkit for analyzing how the financing, payment, and organization of health service provision determine system performance. Student teams will analyze a health system component and develop health reform recommendations for advancing the often-competing goals of improved population health, financial protection, and public satisfaction. They will also learn how to enhance the political feasibility of technically rigorous reforms through rational design and political stakeholder analysis. Theoretical frameworks utilized by international aid organizations and think tanks will be supplemented by case studies, hands-on class activities, and team projects to encourage active student learning. Gordis Teaching Fellowship course open to Junior and Senior Public Health Majors only.
Instructor(s): N. Done
Area: Social and Behavioral Sciences.

AS.280.416. Nutrition and Immunology in Chronic Disease. 3.0 Credits.
This course provides an overview of basic immunology and nutrition through the review of published chronic disease research. By careful reading and critique of published literature, students will learn to interpret scientific studies on nutrition and chronic disease. This course will cover a variety of globally important chronic diseases such as type II diabetes, heart disease and cancer. Course sessions will include lectures on the basics of nutrition and immunology, seminar sessions to critically evaluate published research findings and group presentations. Recommended prerequisite: Introductory Biology. Gordis Teaching Fellowship course open to junior and seniors only.
Instructor(s): J. Fontes
Area: Natural Sciences.

AS.280.417. Mental Health in Humanitarian Emergencies. 3.0 Credits.
This course will serve as an introduction to mental health in humanitarian emergencies. The course focuses both on mental health disorders (PTSD, anxiety, depression and substance abuse) and well-being (functionality, self-esteem, hope, and pro-social behavior). Assessment of mental health in humanitarian emergencies will include identification of risk factors and protective factors that impact mental health disorders and promote well-being. Coursework will include exploration of ways gender, age, political climate, environmental factors, and social and cultural norms impact mental health. Furthermore, the course will consider development of mental health interventions for specific cultural contexts and evaluation of the effectiveness of interventions in meeting mental health needs in the short and long-term. Class sessions will be built around case studies from various countries and include contexts of natural disasters, armed conflict and complex emergencies. Gordis Teaching Fellowship course open to junior and seniors only.
Instructor(s): M. Cherewick
Area: Social and Behavioral Sciences.

AS.280.418. Introduction to Public Health Genomics. 3.0 Credits.
Advances in genomic medicine and technology have presented both opportunities and challenges for public health. Through lectures and case studies, the first half of the course will provide an historical overview and raise contemporary issues related to genomics at the individual, public and policy level. In the second half of the course, students will critically analyze psychosocial, behavioral, ethical and legal issues arising from increasingly widespread access to genetic technologies and information. Topics will cover the use of routine testing (prenatal testing, newborn screening and predictive testing for adult-onset conditions) and emerging technologies capable of whole genome sequencing, direct-to-consumer marketing of various kinds of genetic testing, pharmacogenomics and personalized medicine. Gordis Teaching Fellowship course open to junior and seniors only.
Instructor(s): Y. Guan
Area: Social and Behavioral Sciences.
AS.280.419. Introduction to Practical Data Analysis in Medicine and Public Health. 3.0 Credits.
The course is designed to introduce undergraduate public health majors to the methodology of data analysis, such as how to apply previously learned statistical methods in the performance of data analysis in medical and public health research. This course is unique in that it focuses on all parts of the data analysis process, from formulating a research question to synthesizing the results. While the emphasis is placed on developing and implementing various methods of data analysis, the course will also address interpreting and evaluating the strengths and limitations of existing data analyses. Students’ understanding will be solidified through small in-class activities that explore the data analysis process and evaluations of data analyses in the scientific literature, culminating in a final data analysis project relevant to their own areas of expertise for the purpose of incorporating knowledge gained from the course into their research. Gordis Teaching Fellowship course open to sophomore, junior, and seniors who have taken AS.280.345: Public Health Biostatistics. 
**Prerequisites:** AS.280.345
Instructor(s): T. Usher
Area: Quantitative and Mathematical Sciences.

AS.280.420. Global Food and Nutrition Security. 3.0 Credits.
This course examines food insecurity in low and middle income countries from a public health nutrition perspective. Students will explore food insecurity as a complex phenomenon linked to important issues in global development and public health. Recommended prior course, either Issues in International Development or Global Health Principles & Practices. Gordis Teaching Fellowship course open to junior and seniors only. Instructor(s): B. Caswell
Area: Social and Behavioral Sciences.

AS.280.421. Telling Public Health Stories through Maps. 3.0 Credits.
Maps play an increasingly central role in conceptualizing, investigating, and communicating many types of public health concerns. This semester-long course is intended for undergraduate students in their junior or senior year who are familiar with epidemiology and biostatistics. This course will develop the skills needed to create and manipulate spatial information for public health research and communication. The course also prepares students to critically evaluate spatial data and to identify the common pitfalls of map-making. Through a blend of lectures, student seminars, and lab exercises, students will examine and appreciate the history of map-making, its current uses in public health, and future directions of spatial analysis. This course involves active student participation during discussions, short responses to the readings, and culminates in an independent spatial analysis project involving Geographic Information Systems (GIS) software. Basic knowledge of biostatistics and epidemiology are recommended pre-requisites. Juniors/Seniors Only. Gordis Teaching Fellowship course
Instructor(s): B. Davis
Area: Quantitative and Mathematical Sciences, Social and Behavioral Sciences.

AS.280.422. Health Equity and Disparities: Addressing Complex Global Health Challenges. 3.0 Credits.
In this course, students will be supported and challenged to develop a personal understanding of and perspective on global health equity and disparities, and acquire a toolbox of frameworks and strategies to use in addressing them. Students will have the opportunity to be exposed to numerous examples and case studies to gain experience in assessing and addressing issues of equity in the complex, real-life problems such as those they will be facing as public health professionals. Students will review major historical and contemporary global and national initiatives to address equity issues in the health sector, including global declarations and reports as well as policies and programs that have been developed to achieve improvements in health equity in specific contexts. Application of this historical and practical knowledge and their own perspectives to new and complex situations will be fostered throughout the course. Basic knowledge of biostatistics and epidemiology and courses on global health or international public health issues recommended pre-requisites. Juniors/Seniors Only. Gordis Teaching Fellowship course
Instructor(s): M. Schleiff
Area: Social and Behavioral Sciences.

AS.280.423. Data Visualization for Individualized Health. 3.0 Credits.
This course will explore how biostatistics and data visualization can be used to improve patient care and health outcomes. Students will learn and apply key concepts of effective data visualization to applications in individualized medicine. Teams of students will work with clinician-partners of the Hopkins Individualized Health Initiative (http://hopkinsinhealth.jhu.edu) to produce interactive web applications (http://shiny.rstudio.com) that support clinical decision-making by communicating a patient’s health state, prognosis, or expected treatment outcomes. R programming experience (AS.280.419, AS.280.346, or R programming course in coursera (https://coursera.org/course/rprog)) is necessary before the start of this course.
**Prerequisites:** Prereq: AS.280.345
Instructor(s): R. Coley
Area: Quantitative and Mathematical Sciences.

AS.280.424. The Quest for Effective Universal Health Coverage in Low and Middle Income Countries. 3.0 Credits.
This course examines the movement to achieve effective universal health coverage with a particular focus on MICCs. It provides foundational grounding on health systems thinking to understand the key components of effective UHC and accordingly analyzes country cases to demonstrate lessons from health reforms in five LMICs.
Instructor(s): A. Bhadelia
Area: Social and Behavioral Sciences.
An elective for upper-level public health studies students with a strong biology background that reviews the basics of immunology and cancer biology, and then delves into how treatments at the interface are sparking a paradigm shift in how we understand and treat cancer. Special interest will be taken in the public health repercussions of this change in thinking and treatment. Students apply this knowledge by analyzing topics of current and potential immunotherapies such as cancer vaccinations, adoptive cell transfer therapies, immune checkpoint inhibitors, and more. Course format will be a combination of lecture and active learning activities such as facilitated discussions, case study analysis, and role-plays of system actions. Juniors/Seniors only.
Prerequisites: AS.020.151 OR AS.020.152 OR AS.020.243 OR AS.020.123 OR AP Biology
Instructor(s): J. Gordy
Area: Natural Sciences.

AS.280.426. Ethics of Obesity Prevention. 3.0 Credits.
This course introduces undergraduate PHS students to ethical issue of obesity prevention in public health, and how these issues have influenced the success or failure of past and current intervention efforts. Students explore the multiple perspectives of each issue, and use an ethical framework to learn how to address the ethical challenges associated with the development of obesity intervention programs and policy. Juniors/Seniors only.
Instructor(s): L. Redmond
Area: Social and Behavioral Sciences.

AS.280.427. Communicating Science: Skills to Analyze and Communicate Science News. 3.0 Credits.
Science communication is challenging. Experts are seldom trained to translate jargon in everyday language. In this course students will expand their knowledge of the biology basics of several public health issues, develop the critical thinking needed to assess health science reporting, and practice science communication skills.
Prerequisites: Prereq: AS.020.151 OR AS.020.152 OR AS.020.243 OR AS.020.123 OR AP Biology.
Instructor(s): N. Martin
Area: Humanities, Natural Sciences.

AS.280.428. Environmental Health and Disasters. 3.0 Credits.
Environmental Health and Disasters examines the core principles and applications of environmental health science in disaster and humanitarian emergency response. Lecture topics range from emerging infectious diseases to toxicology to climate change. Students will have the opportunity to apply lessons learned through completion of weekly in-class case studies based on recent global events. Juniors/Seniors only
Instructor(s): J. Freeman
Area: Natural Sciences, Social and Behavioral Sciences.

AS.280.429. An Introduction to Public Health Evaluation Using Population-Based Survey. 3.0 Credits.
Students will be introduced to key concepts for public health program evaluation, including how to develop evaluation research questions, common evaluation study designs, and aspects of study implementation including sample size calculation and questionnaire development. Students will become familiar with how to analyze datasets to answer global health evaluation research questions, and effectively interpret and summarize evaluation study results for key audiences. Students will get hands-on experience working with a Demographic and Health Survey (DHS) dataset to apply skills learned in each module. The DHS program provides indicators in areas of population, health, and nutrition from more than 300 surveys in 90 countries (see www.dhsprogram.com). Juniors/Seniors only
Instructor(s): E. Carter
Area: Quantitative and Mathematical Sciences, Social and Behavioral Sciences.

AS.280.430. Communicating Public Health Findings Through Research-Based Theatre. 3.0 Credits.
Results of public health research have the potential to catalyze positive social change, yet often need to be creatively communicated to target audiences in order to produce meaningful effects. Research-based theatre is gaining traction in the health and social sciences as a compelling and effective means of disseminating research findings to audiences beyond those that typically read scientific journal articles. Equipped with the results of a recent mixed-methods study of sexual violence on JHU campuses, students will collaboratively prepare a messaging strategy, a research-based script, print/digital materials, and an audience evaluation plan for a live campus dissemination event at the end of the semester.
Instructor(s): E. Hurley
Area: Humanities, Social and Behavioral Sciences.

AS.280.431. Beyond Borders: Migration, Ethics, and Public Health. 3.0 Credits.
This course explores the public health, ethical, and policy implications of international human migration both globally and within the United States. It is intended for upper-level undergraduate students interested in bioethics, migration, public health, and political philosophy. The first part of the course acquaints students with the various types of migrants and relevant political theory, including citizenship, freedom of movement, open/closed borders, and human rights. In the second part of the course, students discuss different ethical/philosophical concepts related to migration and apply them in analysis of a wide variety of public health and health policy cases. The course culminates with a final paper that students workshop collaboratively. This course challenges students to draw connections between ethical theory and real-world events and policies involving human migration. This is a Gordis Teaching Fellowship course.
Instructor(s): R. Fabi
Area: Social and Behavioral Sciences.
AS.280.432. Statistical Thinking for Informed Decision Making. 3.0 Credits.
Much of the science that we are exposed to on a daily basis is not through original research articles but through sources such as news reports, articles from content aggregators, and social media postings. While these convenient sources of information can be useful in some respects, it is important to read the original scientific articles on which these reports are based. Only in this way can we better understand the state of science on the issues we care about. In this course, students will primarily learn about statistical concepts within the domains of association studies, causal inference, survey analysis, and survival analysis that provide the background necessary to read a wide variety of primary research in public health. Required readings from a custom course textbook will be supplemented by in-class lecture, discussion, and guided simulation exercises. Simulation exercises will use the Shiny environment in the R programming language which allows for point-and-click style exploration and does not require any coding. All code used to create these simulation activities will be made available so that students familiar with R or who want to learn more have the chance to explore on their own time. Secondary goals of the class include (1) examining the differences between information contained in original research articles and secondary sources and (2) improving written and oral communication about statistical ideas.
Prerequisites: AS.280.345 or EN.553.112 or EN.550.211
Instructor(s): L. Myint
Area: Quantitative and Mathematical Sciences.

AS.280.433. How to Feed the World: Perspectives in Global Food and Nutrition Security. 3.0 Credits.
How do we produce not only enough food, but enough of the right kinds of food, to nourish a growing population? In this course we define global food security and position it within the landscape of nutritional problems. We then discuss key challenges associated with food production and food distribution including climate change, weak supply chains, and changing dietary patterns. Finally, we learn about current efforts to improve global food security through policies, programs, and new technologies. This course is suitable for students with an interest in food, nutrition, global health, environmental sustainability, and complex systems.
Instructor(s): M. Spiker
Area: Social and Behavioral Sciences.

AS.280.434. Public Health Nutrition in Latin America. 3.0 Credits.
This course examines drivers and determinants of health in Latin American population from a public health nutrition perspective. Students will be able to discuss the Global Nutrition Transition Framework, drawing from historical public health nutrition issues in Latin America to understand current diet-related concerns and patterns. This is a discussion-based course in which students will be constantly reflecting on past and current issues and lessons learned from these countries. By the end of this course, students be able to propose future public health policies and strategies to improve the nutritional profile of the Latin American population both in Latin American Countries and in Latino immigrant communities here in the United States. Gordis Teaching Fellowship course open to juniors and seniors only.
Instructor(s): A. Trude
Area: Social and Behavioral Sciences.

AS.280.435. Alcohol Use and Social Disparities: A Public Health Perspective. 3.0 Credits.
This upper-level course examines alcohol use from an ethical, epidemiological, and social justice perspective. The course is structured in three parts: 1.) Ethical issues in alcohol-related harms, 2.) Alcohol and marginalized populations, and 3.) Alcohol and injustice. This course models how to frame a complex problem from a public health perspective and teaches students to critically engage with social justice concepts. This seminar-format course incorporates guest lectures, small group exercises, case studies, and role plays. Gordis Teaching Fellowship course open to juniors and seniors.
Instructor(s): P. Trangenstein
Area: Social and Behavioral Sciences.

AS.280.495. Honors In Public Health - Seminar. 3.0 Credits.
Using lectures, oral presentations, and writing assignments, this seminar is designed to assist Public Health Studies majors in writing a senior thesis. Students will formulate their topics, develop research skills, and address issues of professional ethics. Participating in this seminar is required for students pursuing honors in Public Health Studies. Permission Required. Classes will be held at Bloomberg School of Public Health.
Instructor(s): J. Schrack
Area: Social and Behavioral Sciences
Writing Intensive.

AS.280.500. Applied Experience-Public Health. 1.0 - 2.0 Credits.
Perm. Req'd, Public Health Majors Only. This is a supervised, hands-on experience working with public health professionals. Students will complete 80 hours of applied work and will submit a synthesizing assignment at the end of the term. Students completing their AE in the current semester will be enrolled in Section 2. Students whose time will roll over to an additional grading period will be enrolled in Section 1. Please contact your PHS Advisor for complete details.
Instructor(s): L. Folda.

AS.280.501. Internship-Public Health. 1.0 Credit.
Permission Required. Public Health majors only
Instructor(s): K. Henry; L. Folda; L. Foster; M. Bulzacchelli.

AS.280.502. Internship-Public Health. 1.0 Credit.
Permission Required. S/U only.
Instructor(s): K. Henry; L. Folda; L. Foster; M. Bulzacchelli.

AS.280.505. Research for Freshmen/Sophomores in Public Health. 3.0 Credits.
Instructor(s): K. Henry; L. Folda; L. Foster; M. Bulzacchelli.

AS.280.506. Research for Freshmen/Sophomores in Public Health. 0.0 - 3.0 Credits.
Permission Required.
Instructor(s): K. Henry; L. Folda; L. Foster; M. Bulzacchelli; R. Pearlman.

AS.280.507. Independent Study-Public Health. 3.0 Credits.
Public Health majors only. Permission Required.
Instructor(s): K. Henry; L. Folda; L. Foster; M. Bulzacchelli.
AS.280.508. Independent Study-Public Health. 3.0 Credits.
Consult the public health studies adviser for procedure. Permission Required.
Instructor(s): K. Henry; L. Folda; L. Foster; M. Bulzacchelli.

AS.280.511. Research for Juniors/Seniors in Public Health. 3.0 Credits.
Instructor(s): Staff.

AS.280.512. Research for Juniors/Seniors in Public Health. 0.0 - 3.0 Credits.
Restricted to public health studies majors. Consult the public health studies adviser for procedure. Permission Required.
Instructor(s): Staff.

AS.280.519. Public Health Practice. 2.0 Credits.
Specialized training course/experience for students who have been selected to become members of the PEEPs (Preventative Education and Empowerment for Peers), a peer education group based out of the Center for Health Education and Wellness (CHEW). The experience will focus on knowledge, skill and application of college health issues including: health promotion theory, body image, sexual health, alcohol and other drugs, and stress management. Permission Required. S/U Only.
Instructor(s): B. Schubert; J. Goodyear.

AS.280.520. Public Health Practice. 0.0 - 2.0 Credits.
This course is a specialized training course/experience for students who have been selected to become members of the PEEPs (Preventative Education and Empowerment for Peers), a peer education group based out of the Center for Health Education and Wellness (CHEW). The experience will focus on knowledge, skill and application of college health issues including: health promotion theory, body image, sexual health, alcohol and other drugs, and stress management. Permission Required. S/U only.
Instructor(s): B. Schubert.

AS.280.530. Community Based Learning - Advanced Practicum in Community Health. 2.0 Credits.
This course is designed to enable students who have already been volunteering in a community health placement either through 280.399 or an Applied Experience to build on this experience in the spring semester. Students eligible to enroll in this course will have previously completed a semester-long volunteering experience and have already made arrangements with that site to continue to volunteer for a minimum of 60 hours in spring 2014 semester. All students meet as a group every other Monday from 5:00-6:30 pm, starting January 27, 2014. By that meeting all students will be expected to have confirmed with their placement sites that they will be continuing. Class time will be used for reflections, training exercises, oral presentations, and group projects. Attendance at the first session is mandatory and registration forms will be completed at this time. Instructor Permission Required.
Instructor(s): J. Goodyear; L. Bone.

AS.280.590. Internship - Summer. 1.0 Credit.
Instructor(s): K. Gebo; K. Henry; L. Folda; M. Bulzacchelli.

AS.280.596. Independent Study-Summer. 3.0 Credits.
Instructor(s): K. Henry; L. Folda; L. Foster; M. Bulzacchelli.

AS.280.597. Research for Freshmen/Sophomores in Public Health. 3.0 Credits.
Instructor(s): Staff.

AS.280.598. Research for Juniors/Seniors in Public Health. 3.0 Credits.
Instructor(s): K. Henry; L. Folda; L. Foster; M. Bulzacchelli.

Cross Listed Courses

English
AS.060.155. Expository Writing: Introduction to the Research Paper - Controversies in Adolescence. 3.0 Credits.
“Introduction to the Research Paper” is designed to introduce more experienced student writers to the fundamental skills of the research process. These include asking research questions, evaluating the usefulness of sources to answer them, synthesizing sources, reading sources critically, and developing arguments that deliver an original thesis. Students will work with a research librarian at the Eisenhower Library, with whom they will learn to navigate traditional databases as well as new media sources. The Research Paper is topic-based and divided into three linked units of instruction. The course culminates with a paper of 10-12 pages that draws upon the cumulative skills of the semester. Each course is capped at ten students and available only to those who have taken “Expository Writing” (060.113/114)
Instructor(s): A. Watters
Area: Humanities
Writing Intensive.

Anthropology
AS.070.203. Healing: Politics and Poetics. 3.0 Credits.
Metaphors of health and illness; individual and social. The body in pain and the body politic. Ethnographies of historical memory vis-à-vis medicine, epidemics, sacredness, shamanism, terror, humanitarianism, truth and reconciliation.
Instructor(s): J. Obarrio
Area: Humanities, Social and Behavioral Sciences

AS.070.327. Poverty's Life: Anthropology of Health & Economy. 3.0 Credits.
Medicine, economics, and ethics have profoundly shaped debates on poverty. This course analyzes these debates and tracks the relationships between body, economy, and the everyday. How can anthropological reasoning and methods inform approaches to health and economic scarcity and insecurity?
Instructor(s): C. Han
Area: Humanities, Social and Behavioral Sciences
Writing Intensive.

History
AS.100.333. Global Public Health Since World War II. 3.0 Credits.
Globalization has dramatically reshaped the world economy, providing great advantages to some but leaving poor nations to struggle with hunger, disease and death on a daily basis. This course explores the impact of globalization on public health in the developed and the developing nations since 1945. Cross-listed with Public Health Studies
Instructor(s): B. Morgan; L. Galambos
Area: Humanities, Social and Behavioral Sciences
Writing Intensive.

AS.100.411. Readings in the History of Public Health in the 20th and 21st Centuries. 3.0 Credits.
The students will read major and some minor works in the history of global public health and will each develop their own concept of how and why the major institutions, professions, and practices associated with public health have evolved over the past long century. To help the students focus on their ideas, they will write three essays on particular aspects of the history.
Instructor(s): L. Galambos
Area: Humanities, Social and Behavioral Sciences
Writing Intensive.

AS.100.411. Readings in the History of Public Health in the 20th and 21st Centuries. 3.0 Credits.
The students will read major and some minor works in the history of global public health and will each develop their own concept of how and why the major institutions, professions, and practices associated with public health have evolved over the past long century. To help the students focus on their ideas, they will write three essays on particular aspects of the history.
Instructor(s): L. Galambos
Area: Humanities, Social and Behavioral Sciences
Writing Intensive.
History of Science Technology
AS.140.105. History of Medicine. 3.0 Credits.
Course provides an overview of the medical traditions of six ancient cultures; the development of Greek and Islamic traditions in Europe; and the reform and displacement of the Classical traditions during the Scientific Revolution.
Instructor(s): G. Pomata, S. LeJacq
Area: Humanities, Social and Behavioral Sciences.

AS.140.106. History of Modern Medicine. 3.0 Credits.
The history of Western medicine from the Enlightenment to the present, with emphasis on ideas, science, practices, practitioners, and institutions, and the relationship of these to the broad social context.
Instructor(s): N. Comfort
Area: Humanities, Social and Behavioral Sciences.

AS.140.146. History of Public Health in East Asia. 3.0 Credits.
This course examines the history of disease, epidemics, and public health responses in East Asia from the 17th-20th centuries. This public health history emphasizes the interactions, connections, and comparisons among China, Japan, Korea, and Taiwan.
Instructor(s): M. Hanson
Area: Humanities, Social and Behavioral Sciences

AS.140.304. Medicine for and by Women in Early Modern Europe. 3.0 Credits.
This course will examine women’s role in early modern European medicine through the reading of early modern medical texts written for or by women. The course is meant for students interested in women’s history, the history of medicine, European history.
Instructor(s): G. Pomata
Area: Humanities, Social and Behavioral Sciences

AS.140.311. Ecology, Health, and the Environment. 3.0 Credits.
Explores diverse problems linking ecological, environmental and public health themes, with focus on Chesapeake region. Students’ research projects can be outside Chesapeake region.
Instructor(s): S. Kingsland
Area: Humanities, Social and Behavioral Sciences

Philosophy
AS.150.219. Introduction to Bioethics. 3.0 Credits.
Instructor(s): H. Bok
Area: Humanities, Social and Behavioral Sciences

Economics
AS.180.252. Economics of Discrimination. 3.0 Credits.
This course examines labor market discrimination by gender, race and ethnicity in the United States. What does the empirical evidence show, and how can we explain it? How much of the difference in observed outcomes is driven by differences in productivity characteristics and how much is due to discrimination? How have economists theorized about discrimination and what methodologies can be employed to test those theories? What has been the impact of public policy in this area; how do large corporations and educational institutions respond; and what can we learn from landmark lawsuits? The course will reinforce skills relevant to all fields of applied economics, including critical evaluation of the theoretical and empirical literature, the reasoned application of statistical techniques, and analysis of current policy issues.
Prerequisites: AS.180.102
Instructor(s): B. Morgan
Area: Social and Behavioral Sciences

AS.180.289. Economics Of Health. 3.0 Credits.
Application of economic concepts and analysis to the health services system. Review of empirical studies of demand for health services, behavior of providers, and relationship of health services to population health levels. Discussion of current policy issues relating to financing and resource allocation.
Prerequisites: AS.180.102
Instructor(s): D. Bishai
Area: Social and Behavioral Sciences.

AS.180.390. Health Economics & Developing Countries. 3.0 Credits.
Prerequisites: AS.180.301
Instructor(s): M. Gersovitz
Area: Social and Behavioral Sciences

Political Science
AS.190.405. Food Politics. 3.0 Credits.
This course examines the politics of food at the local, national, and global level. Topics include the politics of agricultural subsidies, struggles over genetically modified foods, government efforts at improving food safety, and issues surrounding obesity and nutrition policy. Juniors, seniors, and graduate students only. Cross-listed with Public Health Studies.
Instructor(s): A. Sheingate
Area: Social and Behavioral Sciences

Writing Seminars
AS.220.309. Writing Healthy Baltimore. 3.0 Credits.
Students will explore public health issues in Baltimore and then write about them first in short pieces, and then in longer, polished works. The framework will be the mayor's Healthy Baltimore 2015 initiative – launched in 2011 to address the city’s top-10 public health problems, including obesity, smoking, drug and alcohol abuse, STDs, cancer, and environmental health hazards. Students will study the initiative and its historical context; examine data sets; explore where and how the initiative intersects with public health practitioners and advocacy groups at the neighborhood level; and write what they learn in different formats, including essays, breaking news, and substance analysis. Students will then "workshop" each other's papers.
Instructor(s): K. Masterson
Area: Humanities

Writing Intensive.
Sociology

AS.230.150. Issues in International Development. 3.0 Credits.
This course will provide an undergraduate level introduction to the study and practice, as well as the successes and failures, of international development. Students will be introduced to the various theoretical frameworks used to explain underdevelopment. Students will also explore the practice of development since the 1950s by examining specific strategies employed in Latin America, South Asia, East Asia, and Africa. Using a variety of country-specific case studies, students will have the opportunity to apply the theoretical and practical frameworks learned in the class to assess the successes and failures of real-life cases.
Instructor(s): M. Levien
Area: Social and Behavioral Sciences.

AS.230.225. Population, Health and Development. 3.0 Credits.
This course will cover the major world population changes in the past century as well as the contemporary situation and projections for this century. Topics include rapid population growth, the historical and continuing decline of death and birth rates, contraceptive methods as well as family planning and child survival programs, population aging, urbanization, population and the environment and the demographic effects of HIV/AIDS
Instructor(s): S. Becker
Area: Social and Behavioral Sciences.

AS.230.324. Gender and International Development. 3.0 Credits.
This course employs a comparative perspective to examine the gendered impact of international development experiences and policies. Students will discuss the historical evolution of how the concept of gender has been constructed, conceptualized, and integrated into international development theory and practice. The course will also examine how greater international development. In particular, we will examine structural theories of poverty reduction, individual theories of power and processes of stratification at the household and family level. Specific issue areas will include the globalization, class and work political participation and social movements. Cross-listed with International Studies (CP, IR). Fulfills Economics requirement for IS GSCD track students only.
Instructor(s): R. Agarwala
Area: Social and Behavioral Sciences.

AS.230.335. Medical Humanitarianism. 3.0 Credits.
Humanitarian organizations play life-preserving roles in global conflicts, and have front-row views of disasters ranging from the 2010 Haiti earthquake to the 2011 Fukushima tsunami in Japan. Yet even while they provide vital assistance to millions of people in crisis, such organizations are beset by important paradoxes that hinder their capacity to create sustainable interventions. They work to fill long-lasting needs, but are prone to moving quickly from one site to the next in search of the latest emergency. They strive to be apolitical, yet are invariably influenced by the geopolitical agendas of global powers. How do such contradictions arise, and what is their impact upon millions of aid recipients around the world? Drawing on case studies from South Sudan to Haiti, this course addresses these contradictions by exploring how and why medical aid organizations attempt, and sometimes fail, to reconcile short-term goals, such as immediate life-saving, with long-term missions, such as public health programs and conflict resolution initiatives.
Instructor(s): I. Naveh Benjamin
Area: Social and Behavioral Sciences.

AS.230.341. Sociology of Health and Illness. 3.0 Credits.
This course introduces students to medical sociology, which is the application of the sociological perspective to health and health care. Major topics include stress, social epidemiology, and the social organization of health care.
Instructor(s): E. Agree
Area: Social and Behavioral Sciences.

Earth Planetary Sciences

AS.270.308. Population/Community Ecology. 3.0 Credits.
This course explores the distribution and abundance of organisms and their interactions. Topics include dynamics and regulation of populations, population interactions (competition, predation, mutualism, parasitism, herbivory), biodiversity, organization of equilibrium and non-equilibrium communities, energy flow, and nutrient cycles in ecosystems. Field trip included. Permission of instructor.
Prerequisites: AS.270.103 or permission of instructor
Instructor(s): K. Szlavecz
Area: Natural Sciences.

AS.271.107. Introduction to Sustainability. 3.0 Credits.
Will introduce interactions between global environment and humans, discuss meaning of sustainability, and introduce use of tools to attain sustainability such as policy, law, communication, marketing, research, advocacy, international treaties.
Instructor(s): R. Kelly.

AS.271.360. Climate Change: Science & Policy. 3.0 Credits.
Prereq: 270.103 or permission of instructor. This course will investigate the policy and scientific debate over global warming. It will review the current state of scientific knowledge about climate change, examine the potential impacts and implications of climate change, explore our options for responding to climate change, and discuss the present political debate over global warming.
Instructor(s): B. Zaitchik; D. Waugh
Area: Natural Sciences.

Interdepartmental

AS.360.115. Discover Hopkins Health: Food, Nutrition & Public Health. 1.0 Credit.
With the creation of President Barack Obama’s Task Force on Childhood Obesity, there is finally a national focus on the importance of childhood nutrition. First Lady Michelle Obama spearheads the “Let’s Move!” initiative, dedicated to the goal of eradicating childhood obesity through an emphasis on diet and physical activity. This class will tackle the issue of food, nutrition and health from the ground up; looking at multiple behavioral, cultural, and environmental factors that influence what and why we eat. We will also look at how our food systems and eating habits impact the health of individuals, communities, our country, and the world.
In this two week session students will have a variety of experiences including trips to a Baltimore City urban farm, the Maryland Food Bank, farmer’s markets, one of Baltimore’s traditional public markets, and a sustainably-sourced restaurant. Students will hear guest speakers from the academic and government sectors.
Instructor(s): C. Burns; S. Lee; Y. Mui
Area: Social and Behavioral Sciences.
Center for Africana Studies

AS.362.325. The Role of "Place" in Racial Ethnic Health Disparities. 3.0 Credits.
This course will introduce students to racial/ethnic health disparities, the need to examine the role of "place", give different definitions of "place", how the characteristics of where people live affects individual’s health, and how this leads to racial/ethnic health disparities. The course will first examine large-scale measures of place, then down to smaller scale measures. Students will discuss various theories generally associated with racial/ethnic health disparities, as well as, the extension of "place" theories to this topic. Students will apply this knowledge through various assignments and activities about racial/ethnic health disparities of interest. These activities include class discussions, group assignments and development of interventions and solution-focused policy recommendations. This course is being offered for sophomores, juniors and seniors who have completed a statistic course or who have received permission from the instructor.
Prerequisites: Students may receive credit for AS.280.411 or AS.362.325, but not both.
Instructor(s): C. Bell
Area: Humanities.

AS.362.371. Public Health Crisis in Africa. 3.0 Credits.
This course examines the historical and current public health crises in Africa. Topics covered include infectious diseases and viral outbreaks, water and food access, sanitation, education, behavioral health, gender equality, health care and health care access, as well as the link between culture, economics and health. Introduction to Epidemiology is recommended but not required.
Instructor(s): M. Smart
Area: Humanities, Social and Behavioral Sciences.

Environmental Health and Engineering

EN.570.108. Introduction Environmental Engineering. 3.0 Credits.
Overview of environmental engineering including water/air quality issues, water supply/ wastewater treatment, hazardous/solid waste management, pollution prevention, global environmental issues, public health considerations/environmental laws, regulations and ethics. Cross-listed with Public Health Studies.
Instructor(s): H. Alavi
Area: Engineering.

Entrepreneurship and Management

EN.660.336. Community Engineering: Interdisciplinary Problem Solving-Community Based Learning. 3.0 Credits.
So many big and seemingly intractable problems inhibit progress and diminish quality of life especially in and around urban communities. Surely there are ways to begin to tackle some of these problems, if we approach them from a multi-disciplinary perspective. This course provides that opportunity as students, who work primarily in teams, apply theory and ingenuity to investigate problems, propose solutions or invent devices that address some of these problems. Class time is spent in lecture, discussion, and applied community projects to master content. Time will be spent participating on teams and working in community organizations in addition to class.
Instructor(s): E. Rice; P. Beilenson
Area: Social and Behavioral Sciences
Writing Intensive.