SCHEDULE INFORMATION
This schedule includes all courses expected to be offered by the Johns Hopkins Bloomberg School of Public Health during the Summer term of academic year 2012-13. The listing is based on data supplied by the academic departments and approved by the subcommittee of the Committee on Academic Standards as of May 16, 2012. Courses are listed in numerical order within departments. The second three digits represent the department or division. The three digits to the right of the period represent the course number.

COURSE INFORMATION
Included in the listing for each course are class meeting dates, times, instructor, and prerequisites. Classes designated as TBA will have times arranged at a later date by the department offering the course; students must check with the department for this information. Classroom assignments will be made available immediately prior to the beginning of the term. The most recent course descriptions are included at the following website:

Visit the JHSPH Course Search site for current course information:
http://www.jhsph.edu/courses/

You can access links to comprehensive course information: http://www.jhsph.edu/student_affairs/registrar/

REGISTRATION INFORMATION
Continuing students may register for Summer term through June 22, 2012 by logging on to ISIS Self Services at https://isis.jhu.edu/sswf. To register via the web, students must use their JHED LID (logon user ID) and password for authentication. Summer term tuition payments are due via the web (https://isis.jhu.edu/sswf) by Friday, July 13, 2012. Changes to Summer term registration may be processed via the web during the published Add/Drop period for Summer term: Thursday, July 5 – Wednesday, July 18, 2012. The one exception to these dates is 340.655 Introduction to Clinical Research (July 9 - July 20). Students taking this course must process any Adds or Drops during the first week of the course – 7/9 to 7/13. School of Medicine Post Doctoral Fellows may not register via the web; they must register in person, prior to the June 22 deadline. SOM Post Docs must complete the paper registration form in E1002. SOM Post Docs must adhere to all course restrictions and required permissions and are responsible for any course materials/ lab fees in addition to any late registration and late change fees. Special Students Limited (SSL) may apply for the regular eight week term at http://www.jhsph.edu/studentaccts/nondegree/application.html; SSL online registration requests will not be processed until instructor's permission for all courses and tuition payment are received. SSLs must submit payment and permission to the Continuing Education Student Services Office at 410-614-8633 or mail to: Continuing Education Student Services, Suite 1101, 615 N. Wolfe St., Baltimore, MD 21205.

Tuition is assessed at a rate of $923 per credit unit. Students receive a 100% tuition refund for any withdrawals made prior to the end of the Add/Drop period; however, there is no tuition refund after the Add/Drop period. A fee of $100 will be assessed for registering after the June 22 deadline and a fee of $50 will be assessed for making changes after the Add/Drop deadline for each academic term. No changes will be accepted during the last two weeks of a term.

REQUIRED APPROVALS
All students in the School (with the exception of Special Students Limited and SOM Post Docs) are expected to have their registration selections approved by their academic advisors. It is the student’s responsibility to have his/her registration, including grading options and registration changes, reviewed and approved by an advisor. Additionally, if a course is noted as requiring instructor’s consent, it is the student’s responsibility to obtain such consent. This consent may be obtained in person or by e-mail and it is in the student’s best interest to maintain documentation of such approvals. Additionally, all special studies (.800 series) and all courses taken for audit must have the instructor’s consent. All Special Students Limited must have each of their course registrations approved by the instructor in writing (e-mail approvals are acceptable).

As of May 31, 2012
COURSE LISTING CODES
Course listings consist of the following: a three character department code—the second two characters identify the department in which the course is offered, the third character may be used to indicate a division or cluster within the department. Refer to the list below for department/division codes.

DEPARTMENT/DIVISION CODES
120. Biochemistry and Molecular Biology
   Division of Reproductive Biology
140. Biostatistics
180. Environmental Health Sciences
182. Environmental Health Engineering
   183. Physiology
   186. Radiation Health Sciences
   187. Toxicological Sciences
   188. Occupational and Environmental Health
220. International Health
260. Molecular Microbiology and Immunology
300. Health Policy and Management
330. Mental Health
340. Epidemiology
380. Population and Family Health Sciences
390. Clinical Investigation
410. Health Behavior and Society
550. Adjunct Studies

A course number—the three character course number will be used to indicate the level, format, and the sequence of the course. Since the School of Public Health is a graduate division, courses will be numbered within the following range.

A. 600-699: Formal Courses normally offered in the second year of graduate study.
B. 700-799: Formal Courses normally offered in the second or last year of graduate study.
C. 800-899: Repeatable courses offered in a variety of informal (i.e., non-lecture) formats that can be distinguished by the following sub designations:
   810 series Field Placement
   820 series Thesis Research (master's and doctoral)
   830 series Postdoctoral Research
   840 series Special Studies and Research
   850 series Laboratory rotation courses
   860 series Informal seminars (e.g., journal or research clubs) that vary in content each quarter of each year and address current topics

Examples
182.820 Thesis Research in Environmental Health Engineering
340.840 Special Studies and Research Epidemiology
260.851 Laboratory Rotations
187.861 Toxicological Sciences Seminar

INTERDIVISIONAL CODES
Some School of Public Health courses may have prerequisites from other divisions of the University. Also, other divisions may jointly offer courses with the School of Public Health. To denote courses offered by other University divisions, the following system is used:

AS School of Arts and Sciences (SAS)
ME School of Medicine (SOM)
NR School of Nursing (SON)
BU Business Carey School

(Example: ME 330.702 denotes a School of Medicine course, in the Department of Pharmacology and Molecular Sciences)
Biochemistry and Molecular Biology

120.800.01  MPH CAPSTONE: BIOCHEMISTRY AND MOLECULAR BIOLOGY
Course offered this year
(2 credits)
Must have 1-4 credits per term for two terms.
The MPH Capstone is an opportunity for students to work on public health practice projects that are of particular interest to them. The goal is for students to apply the skills and competencies they have acquired to a public health problem that simulates a professional practice experience.
Information not required for this course type

Enrollment minimum of 10
No Maximum
Pass/Fail
Consent required for all students
Consent from the Capstone Supervisor is Required
Prerequisite: All other MPH core requirements must be taken before or concurrently with the Capstone project.

120.820.01  THESIS RESEARCH BIOCHEMISTRY
Course offered this year
(variable credits)
Information not required for this course type

Lecture: TBA
Enrollment minimum of 10
No Maximum
Pass/Fail

120.840.01  SPECIAL STUDIES AND RESEARCH BIOCHEMISTRY
Course offered this year
(variable credits)
Based on other coursework taken.
Consists of presentations by speakers of scientific renown on important and current information in biochemistry, and molecular and cellular biology, and by faculty members from the university whose research efforts are of general interest to fellows, students, and faculty.
Information not required for this course type

Enrollment minimum of 10
No Maximum
Pass/Fail

120.853.01  SUMMER BIOCHEMICAL TECHNIQUES
Course offered this year
(6 credits)
Biochemistry and Molecular Biology doctoral students spend six weeks participating in the research activities of a faculty members laboratory.
Information not required for this course type

Enrollment minimum of 10
No Maximum
Must be a 1st year Biochemistry and Molecular Biology student.
Pass/Fail
Consent required for all students
Consent of instructor is required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>120.861.01</td>
<td>SPECIAL TOPICS IN BIOCHEMISTRY: X-RAY CRYSTALLOGRAPHY-A HANDS ON WORKSHOP</td>
</tr>
<tr>
<td></td>
<td>Course offered this year</td>
</tr>
<tr>
<td></td>
<td>(1 credits)</td>
</tr>
<tr>
<td></td>
<td>Bosch, Jurgen</td>
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<tr>
<td></td>
<td>Examines x-ray crystallography. Students gain enough information to be able to collect meaningful data and analyze and refine a structure. Students learn how to collect, process and analyze x-ray data, focus on heavy atom phasing techniques and use state of the art software for refinement.</td>
</tr>
<tr>
<td></td>
<td>Information not required for this course type</td>
</tr>
<tr>
<td></td>
<td>E-mail: <a href="mailto:jubosch@jhsph.edu">jubosch@jhsph.edu</a></td>
</tr>
<tr>
<td></td>
<td>Enrollment minimum of 3</td>
</tr>
<tr>
<td></td>
<td>Enrollment maximum of 10</td>
</tr>
<tr>
<td></td>
<td>None</td>
</tr>
<tr>
<td></td>
<td><strong>Letter Grade or Pass/Fail</strong></td>
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<tr>
<td></td>
<td>Consent required for all students</td>
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<td></td>
<td>Permission of instructor required</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>140.800.01</td>
<td>MPH CAPSTONE BIOSTATISTICS</td>
</tr>
<tr>
<td></td>
<td>Course offered this year</td>
</tr>
<tr>
<td></td>
<td>(2 credits)</td>
</tr>
<tr>
<td></td>
<td>Must have 1-4 credits per term for two terms.</td>
</tr>
<tr>
<td></td>
<td>The MPH Capstone is an opportunity for students to work on public health practice projects that are of particular interest to them. The goal is for students to apply the skills and competencies they have acquired to a public health problem that simulates a professional practice experience.</td>
</tr>
<tr>
<td></td>
<td>Information not required for this course type</td>
</tr>
<tr>
<td></td>
<td>Enrollment minimum of 10</td>
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<tr>
<td></td>
<td>No Maximum</td>
</tr>
<tr>
<td></td>
<td><strong>Pass/Fail</strong></td>
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<tr>
<td></td>
<td>Prerequisite: All other MPH core requirements must be taken before or concurrently with the capstone project.</td>
</tr>
</tbody>
</table>

Summer term information is correct as of June 13, 2012. For updated information please use Course Search at my.jhsph.edu/C4/Academics/.
Clinical Investigation

390.677.01 DATABASE DESIGN AND IMPLEMENTATION IN CLINICAL RESEARCH

Course offered this year

(2 credits)

Punjabi, Naresh

Presents basic concepts of relational database design for clinical and basic research. Topics covered include: a) development of data collection forms, b) design of a relational database, c) data quality control, and d) importing and exporting collected data across different platforms.

Upon successfully completing this course, students will be able to:

1. Construct a database environment for efficient storage and access of data
2. Perform queries for data quality control and exportation to statistical packages for analysis
3. Describe the relational database environment

E-mail: npunjabi@jhsph.edu
Lecture: M W TH 5:00 PM - 7:00 PM
Enrollment minimum of 10
Enrollment maximum of 20
Restricted to individuals in the SOCI certificate program or GTPCI students.

Pass/Fail
Consent required for all students
All students must get consent of instructor.
First in a five-course series; held in a computer lab.

Course Change Information:
New course approved Oct 1 2009

Environmental Health Sciences

180.601.01 ENVIRONMENTAL HEALTH

Course offered this year

(5 credits)

Links, Jonathan

Examines health issues, scientific understanding of causes, and possible future approaches to control of the major environmental health problems in industrialized and developing countries. Topics include how the body reacts to environmental pollutants; physical, chemical, and biological agents of environmental contamination; vectors for dissemination (air, water, soil); solid and hazardous waste; susceptible populations; biomarkers and risk analysis; the scientific basis for policy decisions; and emerging global environmental health problems.

Upon successfully completing this course, students will be able to:

1. Define the major environmental agents (i.e. environmental chemical, biological, and physical agents that cause adverse effects on human health) and their sources
2. Discuss the transport and fate of these agents in the environment, and identify the carriers or vectors (air, water, soil, and food) that promote the transfer of these agents from the environment to the human
3. Describe the toxicokinetics of these agents in the body, including the effect of route of entry (inhalation, ingestion, absorption)
4. Describe the toxicodynamics of these agents, including biotransformation and the mechanisms by which they exert adverse health effects, and the use of models for prediction of the magnitude of adverse effects
5. Identify and define the steps in the risk assessment process, including both exposure and dose-response assessment, and the sources and magnitude of uncertainty
6. Describe various risk management approaches, including regulatory, engineering, and behavioral/risk communication options.

7. Describe specific genetic factors (including gender- and ethnicity-related factors), physiologic factors (including age- and health status-related factors), and psychosocial factors (including SES- and social/cultural-related factors) that influence the risk of exposure and/or the likelihood of developing adverse health outcomes from exposure to environmental agents.

8. Identify techniques for improving risk assessment and risk management strategies, including consideration of: (1) factors in the physical environment, (2) factors in the social environment, (3) community-based participation in both the assessment/management process and in basic environmental/public health research, and (4) issues of environmental justice/equity.

E-mail: jlinks@jhsph.edu
Lecture: M W F 1:30 PM - 3:20 PM
Enrollment minimum of 10
No Maximum

**Letter Grade or Pass/Fail**
Prerequisite: College courses in general biology, algebra, and physics or chemistry.
This course is required for MPH students. Optional Q&A and discussion sessions are on Mondays and Wednesdays from 3:30-5 p.m.

Course Change Information:
CourseLearningObj, CourseOfferRationaleNote, CourseSectionNote, ContactPerson, ContactEmail, CPInstructor, .04/10/2012;
Introduces principles and methods of epidemiologic investigation of infectious and noninfectious diseases. Illustrates methods by which studies of the distribution and dynamic behavior of disease in a population can contribute to an understanding of etiologic factors, modes of transmission, and pathogenesis. Presents different types of study design, including randomized trials, case-control and cohort studies, risk estimation and causal inferences. Demonstrates the relationship between epidemiology and the development of policy. Laboratory problems provide experience in epidemiologic methods and inferences, illustrating a common-vehicle epidemic; the spread of infectious disease in school, home, and community; epidemiological aspects of a noninfectious disease; vaccination; the epidemiological approach to health services evaluation; rates of morbidity and mortality; sensitivity and specificity; and life table methods. No auditors permitted.

Upon successfully completing this course, students will be able to:
1. describe basic epidemiologic methods and study design
2. critically review published epidemiologic papers and assess the validity of their design and their inferences
3. identify the place of epidemiology in preventive medicine and disease investigation
4. explain how epidemiologic methods are used to evaluate new drugs and other therapeutic modalities, the benefits of screening and early disease detection, and alternative ways of delivering health care

E-mail: rcrum@jhsph.edu
Lecture: M W F 8:30 AM - 9:20 AM
Enrollment minimum of 5
Enrollment maximum of 275
MPH students only

Covers course materials

340.655.01 INTRODUCTION TO CLINICAL RESEARCH
Course offered this year
(6 credits)
Ford,Daniel and Goodman,Steven
Provides an intensive two-week introduction to clinical research methods, emphasizing epidemiological, biostatistical, and computing methods. Hand-outs and homework exercises provided at each session.

Upon successfully completing this course, students will be able to:
1. Define a research question
2. Describe the steps involved in conducting clinical research
3. Review and evaluate the main study designs used in clinical research: case-control, cohort, clinical trials, cross-sectional, metanalyses
4. Explain the basis of statistical analyses of clinical research studies
5. Describe the methodological basis of diagnostic and prognostic testing
6. Prepare and review a research project

E-mail: dford@jhmi.edu
Lecture: M T W TH F 9:00 AM - 4:30 PM
Enrollment minimum of 5
Enrollment maximum of 50
K-12, GTPCI, Clinical Epid students

Pass/Fail
Consent required for all students
Prerequisite: Students must preregister and prior submission of an abstract for a research project
Participants need to register with the Course Coordinator, Roxanne Stambaugh,rstamba1@jhmi.edu.
340.800.01 MPH CAPSTONE EPIDEMIOLOGY

Course offered this year
(2 credits)
Must have 1-4 credits per term for two terms.
The MPH Capstone is an opportunity for students to work on public health practice projects that are of particular interest to them. The goal is for students to apply the skills and competencies they have acquired to a public health problem that simulates a professional practice experience.
Information not required for this course type

Enrollment minimum of 10
No Maximum
Pass/Fail

340.820.01 THESIS RESEARCH EPIDEMIOLOGY

Course offered this year
(variable credits)
Information not required for this course type

Enrollment minimum of 10
No Maximum
Letter Grade or Pass/Fail

Extradepartmental
SS/R: OCCUPATIONAL MEDICINE RESIDENCY-PRACTICUM YEAR

Weaver, Virginia and Schwartz, Brian

Occupational medicine resident physicians perform a series of clinical, administrative, regulatory, and plant-based rotations throughout the year.

Information not required for this course type

E-mail: vweaver@jhsph.edu

Enrollment minimum of 10
No Maximum
Residency training.
Pass/Fail

SS/R: GENERAL PREVENTIVE MEDICINE RESIDENCY-RESIDENCY YEAR

Alexander, Miriam

Course offered this year
(Variable credits)
Depends on rotations, courses, and research workload.

Range of 12-16 credits
Information not required for this course type

E-mail: mhalexan@jhsph.edu
Lecture: TBA
Enrollment minimum of 10
No Maximum
Restricted to GPMR during post MPH year.
Pass/Fail

SS/R: GENERAL PREVENTIVE MEDICINE RESIDENCY-MPH

Alexander, Miriam

Course offered this year
(1 credits)

Information not required for this course type

E-mail: mhalexan@jhsph.edu
Lecture: TBA
Enrollment minimum of 10
No Maximum
Restricted to MPH/GPMR during MPH year.
Pass/Fail
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>410.800.01</td>
<td>MPH CAPSTONE HEALTH, BEHAVIOR AND SOCIETY</td>
</tr>
<tr>
<td>415.840.01</td>
<td>SS/R: GENETIC COUNSELING</td>
</tr>
<tr>
<td>300.603.01</td>
<td>THE TOOLS OF PUBLIC HEALTH PRACTICE AND DECISION MAKING</td>
</tr>
</tbody>
</table>

**Health Behavior and Society**

410.800.01  **MPH CAPSTONE HEALTH, BEHAVIOR AND SOCIETY**
Course offered this year
(2 credits)
Number of credits depends upon the scope and nature of their project.
The MPH Capstone is an opportunity for students to work on public health practice projects that are of particular interest to them. The goal is for students to apply the skills and competencies they have acquired to a public health problem that simulates a professional practice experience.
Information not required for this course type
Enrollment minimum of 10
No Maximum
Pass/Fail
Prerequisite: All other MPH core requirements must be taken before or concurrently with the capstone project.
All MPH students are required to do a capstone project.

415.840.01  **SS/R: GENETIC COUNSELING**
Course offered this year
(variable credits)
Madeo, Anne
Information not required for this course type
E-mail: amadeo@jhsph.edu
Lecture: TBA
Enrollment minimum of 10
No Maximum
Pass/Fail

**Health Policy and Management**

300.603.01  **THE TOOLS OF PUBLIC HEALTH PRACTICE AND DECISION MAKING**
Course offered this year
(1 credits)
Burke, Thomas
Introduces the core functions of public health and the core competencies for public health professionals. Students assess their strengths and academic goals while building their toolbox of public health competencies. Presents competencies which are illustrated through case studies, and students interactively make decisions. Cases include management and personnel decision making, cultural sensitivity, communicating with the media, outbreak and emergency response. Presents elements of the public health problem solving approach and integrates them into the case examples. Familiarizes students with the core competencies and encourages development through courses and the public health practicum.
This course will prepare you to be able to do the following:
1. Identify the core functions of public health and their application in public health practice
2. Identify the steps in the public health problem solving approach
3. Apply the core competencies for public health professions as developed by the ASPH and Council on Linkages between Academia and Public Health Practice
4. Conduct a self assessment to determine personal strengths and weaknesses, and goals for competency development
5. Identify the qualities (positive and negative) of leaders within the public health practice setting
6. Apply the problem solving approach and core competencies to reach decisions to address real world public health problems
7. Identify the challenges of communication in public health practice and develop strategies for addressing multiple audiences
8. Identify the role of the media in public health communication and be equipped to craft a message for the media
9. Review the importance of surveillance and public health indicators in the practice setting
10. Identify the importance of social, economic, and political drivers in the development of public health strategies
11. Develop a plan for building a toolbox of competencies

E-mail: tburke@jhsph.edu
Lecture: T TH 9:00 AM - 11:20 AM
Enrollment minimum of 10
No Maximum
Pass/Fail

300.645.01 MAKING CHANGE THROUGH POLICY
Course offered this year
(4 credits)
Teret, Stephen
Introduces students to the role that policy plays in the promotion and protection of the public’s health. Using a variety of domestic and international health issues as case studies, students learn how policy can be an effective tool for making change. Offers perspectives from both the developed and developing world.
Upon successfully completing this course, students will be able to:
1. Identify the role that policy plays in promoting and protecting the public’s health
2. Explain the interaction of the public health sciences and public health policy
3. Describe the principles that underlie public health policy development
4. Define the stages of policy making
5. Develop the skills to identify a public health issue, create a policy to address the issue, and advocate for the policy’s implementation
6. Provide examples of how public health practitioners employ policy to approach public health problems

E-mail: steret@jhsph.edu
Lecture: T TH 9:00 AM - 11:20 AM
Enrollment minimum of 10
No Maximum
MPH students only
Pass/Fail
300.800.01 MPH CAPSTONE HEALTH POLICY AND MANAGEMENT
Course offered this year
(2 credits)
Must have 1-4 credits per term for two terms.
The MPH Capstone is an opportunity for students to work on public health practice projects that are of particular interest to them. The goal is for students to apply the skills and competencies they have acquired to a public health problem that simulates a professional practice experience.
Information not required for this course type
Enrollment minimum of 10
No Maximum
Pass/Fail

300.840.01 SPECIAL STUDIES AND RESEARCH IN HEALTH POLICY AND MANAGEMENT
Course offered this year
(variable credits)
Not required for this course type
Information not required for this course type
Enrollment minimum of 10
No Maximum
Pass/Fail

301.820.01 THESIS RESEARCH IN HEALTH POLICY AND MANAGEMENT
Course offered this year
(variable credits)
Information not required for this course type
Enrollment minimum of 10
No Maximum
Pass/Fail
315.862.01  PUBLIC HEALTH INFORMATICS CERTIFICATE PRACTICUM  

Course offered this year  
(variable credits)  
Students register for either 2 or 3 credits for the practicum, after consultation with the certificate director.  
Weiner, Jonathan  
Provides students in the Public Health Informatics Certificate Program with an integrated experience on the use of information technology in a health sciences environment. Students have an opportunity to participate in informatics and information technology issues in real-world settings. Students are placed based on their individual goals and interests and the preceptors’ needs. Students join an active work group and are supervised directly or indirectly by the practicum preceptor. Students already in degree seeking programs may use their required capstone/practicum to count towards their Informatics practicum as long as it is relevant to the field of Informatics.  
Upon successfully completing this course, students will be able to:  
1. apply the skills and competencies learned over the entire certificate curriculum to real world informatics in a public health setting  
E-mail: jweiner@jhsph.edu  
Enrollment minimum of 1  
No Maximum  
Students enrolled in the Health Informatics Certificate only  

Pass/Fail  
Prerequisite: All Public Health Informatics Certificate requirements must be taken before or concurrently with the practicum.

International Health  

220.800.01  MPH CAPSTONE INTERNATIONAL HEALTH  

Course offered this year  
(2 credits)  
Must have 1-4 credits per term for two terms. The MPH Capstone is an opportunity for students to work on public health practice projects that are of particular interest to them. The goal is for students to apply the skills and competencies they have acquired to a public health problem that simulates a professional practice experience. Information not required for this course type  
Enrollment minimum of 10  
No Maximum  
Pass/Fail  
Prerequisite: All other MPH core requirements must be taken before or concurrently with the capstone project.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Credits</th>
<th>Enrollment</th>
<th>Grade Option</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>330.800.01</td>
<td>MPH CAPSTONE MENTAL HEALTH</td>
<td>The MPH Capstone is an opportunity for students to work on public health practice projects that are of particular interest to them. The goal is for students to apply the skills and competencies they have acquired to a public health problem that simulates a professional practice experience.</td>
<td>2</td>
<td>10</td>
<td>Pass/Fail</td>
<td>Prerequisite: All other MPH core requirements must be taken before or concurrently with the capstone project.</td>
</tr>
<tr>
<td>260.851.01</td>
<td>LABORATORY ROTATIONS</td>
<td>All departmental Sc.M. and doctoral students spend two and three terms, respectively, participating in the research activities of departmental faculty's laboratories. Students select appropriate rotations in consultation with their academic advisors and the departmental Graduate Program Committee.</td>
<td>4-8</td>
<td>10</td>
<td>Pass/Fail</td>
<td>Consent required for all students, Consent of rotation supervisor required.</td>
</tr>
</tbody>
</table>

Summer term information is correct as of June 13, 2012. For updated information please use Course Search at my.jhsph.edu/C4/Academics/.
Population, Family and Reproductive Health

380.755.01  POPULATION DYNAMICS AND PUBLIC HEALTH

Course offered this year
(2 credits)
Becker, Stan and Canudas-Romo, Vladimir
Provides an overview of population dynamics in US and the world and their implications for health trends at the individual, family, community and global levels.

Upon successfully completing this course, students will be able to:
1. Describe the major trends and patterns of domestic and international population change and their basic components of size, distribution and composition
2. Identify selected sources of population data and their strengths and limitations, and apply population methods to public health program planning
3. Identify key health policy interventions which affect population change

E-mail: sbecker@jhsph.edu
Lecture: T 1:30 PM - 2:20 PM
Lab: TH 1:30 PM-3:20 PM
Lab: TH 1:30 PM-3:20 PM
Lab: TH 1:30 PM-3:20 PM
Lab: T 2:30 PM-4:20 PM
Lab: T 2:30 PM-4:20 PM
Lab: T 2:30 PM-4:20 PM
Special Lab Number: 380.955
Enrollment minimum of 50
Enrollment maximum of 275
None
Letter Grade or Pass/Fail
Prerequisite: None

380.800.01  MPH CAPSTONE POPULATION, FAMILY AND REPRODUCTIVE HEALTH

Course offered this year
(2 credits)
Must have 1-4 credits per term for two terms.
The MPH Capstone is an opportunity for students to work on public health practice projects that are of particular interest to them. The goal is for students to apply the skills and competencies they have acquired to a public health problem that simulates a professional practice experience.
Information not required for this course type

Enrollment minimum of 10
No Maximum
Pass/Fail

INTERNATIONAL COHORT

Biostatistics

140.613.20  DATA ANALYSIS WORKSHOP I

Course offered only this year
(2 credits)
Kong, Xiangrong
Intended for students with a broad understanding of biostatistical concepts used in public health sciences who seek to develop additional data analysis skills. Emphasizes concepts and illustration of concepts applying a variety of analytic techniques to public health datasets in a computer laboratory using Stata statistical software. In the first workshop (140.613), students learn basic methods of data organization/management and simple methods for data exploration, data editing, and graphical and tabular displays. Additional topics include comparison of means and proportions, simple linear regression and correlation. Enrollment limited: students must have a laptop computer with Stata 8 installed.
Upon successfully completing this course, students will be able to:

1. Create, save and edit STATA datasets, log files and do files
2. Use STATA to perform exploratory data analysis for continuous and dichotomous variables
3. Use STATA do files to create reproducible analyses
4. Explain the distinction between and appropriate uses of the binomial, poisson and normal probability models
5. Use STATA to perform paired and unpaired t-tests for differences in group means
6. Describe the appropriate use of paired and unpaired t-tests and the interpretation of the resulting Stata output
7. Use STATA to perform a chi-squared test and compute confidence intervals for differences in group proportions, relative risks and odds ratios
8. Describe the appropriate use of chi-squared tests and the interpretation of the resulting Stata output
9. Use STATA to visualize relationships between two continuous measures
10. Use STATA to fit simple linear regression models, and interpret relevant estimates from the results

Course is restricted to the Pacific Rim DrPH cohort students only

Prerequisite: Experience in using a statistical analysis package; 140.611-612; enrollment limited to 20 students enrolled in an SPH degree program

140.614.20 DATA ANALYSIS WORKSHOP II

Course offered only this year

(2 credits)

Kong, Xiangrong

Intended for students with a broad understanding of biostatistical concepts used in public health sciences who seek to develop additional data analysis skills. Emphasizes concepts and illustration of concepts applying a variety of analytic techniques to public health datasets in a computer laboratory using Stata statistical software. In the second workshop (140.614), students will master advanced methods of data analysis including analysis of variance, analysis of covariance, nonparametric methods for comparing groups, multiple linear regression, logistic regression, log-linear regression, and survival analysis. Enrollment limited: students must have a laptop computer with Stata 8 installed.

Upon successfully completing this course, students will be able to:

1. Use STATA to visualize relationships between two continuous measures
2. Use STATA to fit simple linear regression models, and interpret relevant estimates from the results
3. Use STATA to fit multiple linear regression models to relate a continous outcome to multiple predictors in one model and to help assess confounding, interaction, and goodness-of-fit
4. Interpret the relevant estimates from multiple linear regression
5. Use STATA to graph lowess smoothing functions to relate the probability of a dichotomous outcome to a continous predictor
Extradepartmental

6. Use STATA to fit multiple logistic regression models to relate a dichotomous outcome to multiple predictors in one model and to help assess confounding, interaction, and goodness-of-fit

7. Set up cohort study data into STATA survival analysis format

8. Use STATA to graph Kaplan-Meier curves and perform log-rank tests

9. use STATA to fit Cox regression models to relate time-to-event data to multiple predictors in one model and to help assess confounding, interaction, and goodness-of-fit

10. Interpret the confounding estimates from Cox regression

550.845.20 COMPREHENSIVE OR PRELIMINARY ORAL EXAM FOR PART TIME INTERNATIONAL DRPH STUDENTS

Course offered this year

(2 credits)

Since US Immigration laws require that all International students must be enrolled full time when on campus, students must complete their departmental/program comprehensive examination or their School preliminary oral examination enrolled as a full-time student during the time period of the exam.

Information not required for this course type

Enrollment minimum of 10
No Maximum

Enrollment restricted to international part time Doctor of Public Health degree students who intend to be on campus to complete their departmental/program comprehensive exam or their Departmental or School preliminary oral exam.

Pass/Fail

Please enroll with your advisor. Full time enrollment for part time students engaged in on campus/in person academic activities is defined as 2 term credits (16 contact hours) per week.

E-mail: xikong@jhsph.edu
Lecture: F SA 8:30 AM - 5:00 PM
Enrollment minimum of 10
Enrollment maximum of 24
Pacific Rim DrPH cohort
Letter Grade or Pass/Fail
Consent required for all students
This section is restricted to the DrPH Pacific Rim cohort only
Prerequisite: 140.613
Students must have a laptop computer with Stata 10 or 11 installed.
551.610.20  FOUNDATIONS OF LEADERSHIP: A LEADERSHIP SURVEY COURSE
Course offered only this year
(3 credits)
Gundlach, Ann-Michele
Students develop an understanding of the role of the organizational leader, and the essential knowledge and skills the role requires. Designed to provide a framework for understanding the process of working effectively with and leading others. Drawing from a variety of disciplines, places emphasis on the role of the leader in relation to organizational effectiveness, developing a vision for the future, leading change, and building adaptive organizational cultures.
Information not required for this course type.
E-mail: agundlac@jhsph.edu
Lecture: M T W 8:30 AM - 5:00 PM
Enrollment minimum of 5
Enrollment maximum of 35
Pacific Rim DrPH cohort only
Letter Grade or Pass/Fail
Consent required for all students
this section is available for the Pacific Rim DrPH cohort only

Health Policy and Management

311.861.20  GRADUATE SEMINAR IN HEALTH CARE MANAGEMENT AND LEADERSHIP
Course offered only this year
(1 credits)
Shi, Leiyu
Provides opportunity to discuss concepts and issues related to organizational performance improvement, organizational performance indicators, and change strategies. Facilitates preparation for comprehensive exams and the design and conduct of dissertation projects. Intended for DrPH students concentrating in Health Care Management and Leadership. Student evaluation based on seminar presentations and participation.
Upon successfully completing this course, students will be able to:
1. Apply concepts and skills in organizational performance improvement
2. Develop and monitor organizational performance indicators on a variety of dimensions (clinical, services, financial)
3. Demonstrate change management, communication and leadership skills
E-mail: lshi@jhsph.edu
Lecture: TBA
Enrollment minimum of 10
No Maximum
DrPH students in the Pacific Rim cohort only
Pass/Fail
Consent required for all students
this course is restricted to the new Pacific Rim DrPH students
ECONOMIC EVALUATION I

Course offered only this year
(3 credits)
Frick, Kevin

In light of the increasing constraints on health care resources, students learn to read and interpret cost-effectiveness studies, since economic analysis of medical treatments and public health interventions is becoming an increasingly common tool in health policy decision making. Introduces students to basic economic concepts that are needed in order to understand the recommendations from the United States Panel on Cost Effectiveness in Health and Medicine, such as the distinction between opportunity costs and budgetary costs. Students then review recommendations, particularly as they apply to what students should expect to read in cost-effectiveness research reports. Finally, students discuss the relationship between cost-effectiveness results and other elements of the health care policy decision making process.

Information not required for this course type.

E-mail: kfrick@jhsph.edu
Lecture: TH F SA 8:30 AM - 5:00 PM
Enrollment minimum of 10
No Maximum
Pacific Rim DrPH cohort

Letter Grade or Pass/Fail
Consent required for all students
restricted to Pacific Rim DrPH cohort

DISTANCE EDUCATION

Distance Education courses must have consent of instructor to be taken as audit. All students must complete the Introduction to Online Learning course prior to enrolling in any distance education course

Students can find information about the course, course dates, and directions for registration at the course website:
http://distance.jhsph.edu/oll/

Environmental Health Sciences

ANIMALS IN RESEARCH: LAW, POLICY, AND HUMANE SCIENCES

Course offered this year
(2 credits)
Locke, Paul and Goldberg, Alan

Introduces students to the principles, laws, and policies that influence the use of animal and alternative, non-animal-based (humane sciences) research techniques in biomedical research.

Upon successfully completing this course, students will be able to:
1. describe the principles that govern the use of laboratory animals in research,
2. identify the steps by which biomedical research involving animals is reviewed by Animal Care and Use Committees (IACUCs)
3. explain the guiding principles of humane science, including the "3Rs" -- reduction, refinement and replacement,
4. assess the ways in which the application of humane science principles in biomedical research can lead to more robust scientific methodology and results

E-mail: plocke@jhsph.edu
Enrollment minimum of 10
No Maximum
Letter Grade or Pass/Fail
Prerequisite: Introduction to Online Learning.
Extradepartmental

550.630.81  PUBLIC HEALTH BIOLOGY

   Course offered this year
   (3 credits)
   Korch, George and Coulombe, Pierre

   Offers an integrative molecular and biological perspective on public health problems. Explores population biology and ecological principles underlying public health and reviews molecular biology in relation to public health biology. Modules focus on specific diseases of viral, bacterial, and environmental origin. Uses specific examples of each type to develop the general principles that govern interactions among susceptible organisms and etiologic agents. Devotes special attention to factors that act in reproduction and development. Places emphasis on common elements encountered in these modules. These may include origin and dissemination of drug resistance, organization and transmission of virulence determinants, modulation of immune responses, disruption of signal transduction pathways, and perturbation of gene expression. Also considers the role of the genetic constitution of the host.

   Information not required for this course type

   E-mail: gkorch@jhsph.edu
   Enrollment minimum of 10
   No Maximum
   Letter Grade or Pass/Fail
   Prerequisite: Introduction to Online Learning
   Jointly offered with BIOCHEM, MMI
   Content similar to 550.630.01
   Course Change Information:
   CourseLearningObject, CourseOfferRationaleNote, ContactEmail, .03/01/2012;

Health Policy and Management

313.687.81  OBESITY ECONOMICS

   Course offered this year
   (1 credits)
   Frick, Kevin

   Introduces students to the economic approach to evaluating obesity. Focuses on attributable health care expenditures, quality adjusted life years, productivity changes, consumer sovereignty, and the incentives and regulations that can be used to change individual adult, parent, and child behavior.

   Upon successfully completing this course, students will be able to:
   1. explore the economic impact of obesity
   2. discuss economic policy that is related to obesity among adults and obesity among children

   E-mail: kfrick@jhsph.edu
   Enrollment minimum of 7
   No Maximum
   Letter Grade or Pass/Fail
   Prerequisite: Introduction to Online Learning

International Health

221.606.81  TRAINING METHODS AND CONTINUING EDUCATION FOR HEALTH WORKERS

   Course offered this year
   (4 credits)
   Brieger, William
Identifies the role of training and continuing education as an important component of health service and personnel management. Participants are guided through the steps of planning training and continuing education activities for a range of health workers from managers to village volunteers. Draws on real life examples from community-directed onchocerciasis control, village health worker programs, and patent medicine vendor training programs, to name a few. Participants prepare a training plan that includes needs assessment instruments, procedures for involving the trainees in their own learning, instructional objectives, appropriate learning methods and delivery modes, resource and budget needs, monitoring and evaluation mechanisms and follow-up supervision. Can provide a foundation for developing a capstone project.

Upon successfully completing this course, students will be able to:

1. Describe the role that training and continuing education play in personnel development and management
2. Outline the contributions and limits of training in organizational management
3. Explain the process of recruiting appropriate participants for a training program
4. Identify and analyze tasks needed by trainees to perform their jobs
5. Utilize training diagnosis results to choose appropriate content for training programs
6. Formulate observable and measurable instructional objectives
7. Link training content with appropriate training methods
8. Plan training logistics that are convenient for trainees and match available resources
9. Budget for training activities
10. Develop a sample training guide
11. List approaches and resources for distance education
12. Describe methods for monitoring the process of training implementation
13. Define the different levels of evaluation for a training program
14. Describe various tools for evaluating outcomes

E-mail: bbrieger@jhsph.edu
Enrollment minimum of 10
No Maximum
Letter Grade or Pass/Fail
Prerequisite: Introduction to Online Learning.

221.688.81 SOCIAL AND BEHAVIORAL FOUNDATIONS OF PRIMARY HEALTH CARE
Course offered this year
(4 credits)
Brieger, William
Provides students with the knowledge and skills needed to understand individual, community, and organizational behaviors and change processes in cross-cultural and developing countries settings as a foundation for planning appropriate Primary Health Care (PHC) programs. Students learn to outline the contributions of social and behavioral science theory in the planning and implementation of culturally relevant PHC programs; will utilize social and behavioral theories to understand individual, social network, organizational, community, and policy maker health related behaviors; and identify the factors that promote and inhibit community involvement in PHC program development and implementation.

Upon successfully completing this course, students will be able to:

1. Outline the contributions of social and behavioral science theory in the planning and implementation of PHC programs
2. Apply relevant social and behavioral theories to diagnose and discuss individual, social network, organizational, community, and policy-maker behaviors associated with the planning, implementation, evaluation, and maintenance of community-based practices.

3. Identify the factors that promote and inhibit community involvement in PHC program development and implementation, and outline indigenous management strategies to sustain PHC at the community level.

E-mail: bbrieger@jhsph.edu
Enrollment minimum of 10
No Maximum

Letter Grade or Pass/Fail
Prerequisite: Introduction to Online Learning.

REGULAR COHORT

Extradepartmental

550.860.82 RESEARCH ETHICS
Course offered this year
(1 credits)
DiPietro, Janet
This series of online modules presents information concerning issues related to the responsible conduct of research, such as authorship, data management, data ownership, guidelines of professional conduct, research fraud or scientific misconduct, academic ethics, conflict of interest, federal and institutional guidelines related to research using human and animal subjects, ethical issues involving vulnerable subjects in research, confidentiality, the Institutional Review Board (IRB) and the Institutional Animal Care and Use Committee (IACUC).
Information not required for this course type
E-mail: jdipietr@jhsph.edu
Enrollment minimum of 10
No Maximum
Auditing not permitted
Pass/Fail
This course fulfills the requirement of all research students (PhD, ScD, ScM, and some MHS students) for a course in the responsible conduct of research.

U.S., NOT A HOPKINS FACILITY

International Health

221.675.91 KNOWLEDGE MOBILIZATION WITH INDIGENOUS PEOPLES
Course offered this year
Santosham, Mathuram

Stimulates new insights on how research can be applied to define and promote programs, policies and change. Explores key approaches to employing research agendas and findings to enhancement of health and well-being across local, national and international communities. These include, among other things, education and advocacy approaches to influencing policy and political change through research knowledge. Also examines systematic approaches to employing research and findings to facilitate change. Leading Indigenous researchers serve as guest faculty and share case examples of knowledge mobilization to address Indigenous interests. Among other activities, participants initiate development of a blueprint to translate research specific to their interests to enhancement of well-being in local communities and beyond.

Upon successfully completing this course, students will be able to:

1. Define and describe how research can be used to develop and promote programs, policies and change
2. Identify opportunities for translating knowledge to action in Indigenous communities
3. Develop a draft plan to translate research knowledge to enhancing well-being of communities where they live
4. Present this plan to a group of national/international stakeholders for review and input

E-mail: msantosh@jhsph.edu

Lecture: M T W TH F 8:30 AM - 2:20 PM
Enrollment minimum of 10
Enrollment maximum of 45
Letter Grade or Pass/Fail
Prerequisite: Experience living and working in indigenous settings.

BETHESDA, MD, NOT A HOPKINS FACILITY

Health Behavior and Society

415.851.92SUPERVISED CLINICAL ROTATIONS: GENETIC COUNSELING

Course offered this year
(variable credits)
Students should register for 4 credits in terms 1-4 and 2 credits in the summer term.
Biesecker, Barbara
Clinical placements in adult, pediatric, and prenatal genetic centers in the Baltimore-Washington area provide opportunity to learn about genetic conditions by their impact on individuals and their families, and about roles of the genetic counselor. Individual rotations are scheduled to achieve a wide range of clinical experiences.
Information not required for this course type
E-mail: barbarab@mail.nih.gov
Enrollment minimum of 10
No Maximum
Pass/Fail
Jointly offered with NIH

INTERNATIONAL, NOT A HOPKINS FACILITY

International Health

221.725.98COMMUNITY-BASED PARTICIPATORY RESEARCH WITH INDIGENOUS PEOPLES

Course offered this year
(2 credits)
Focuses on teaching the principles and methods of community-based participatory research (CBPR) in the context of addressing the root causes of disease and injury in Indigenous communities. Challenges students to use a CBPR framework to deepen their understanding and application of social determinants of health, such as spirituality, indigeneity, resource alienation and colonization that are unique to indigenous communities. Develops skills in CBPR approaches and methods for conducting field research related to social determinants. Prepares students to conceptualize, design, understand, and implement CBPR projects in indigenous populations.

Upon successfully completing this course, students will be able to:

1. Define and describe community-based participatory research (CBPR) approaches and methods, and particularly in relation to working in Indigenous population contexts, and how CBPR differs from other research approaches
2. Identify opportunities for developing and sustaining effective CBPR partnerships in Indigenous communities
3. Develop a draft research proposal that addresses a priority health issue in an Indigenous community that will best be addressed through a CBPR approach and includes: background/rationale for research; a research question; research objectives; methodology

Lecture: M T W TH F 8:30 AM - 2:20 PM
Enrollment minimum of 10
Enrollment maximum of 45

**Letter Grade or Pass/Fail**
Prerequisite: Experience living and working in indigenous settings

Students who take 221.725.81 should not take 410.631.01 or 410.841.111 because of content overlap. First offering of the course will focus on recruiting Indigenous peoples from the United States.

**221.637.81 HEALTH INFORMATION SYSTEMS**

Course offered this year
(3 credits)
Baqui, Abdullah and Weiss, Bill
Systematically presents population-based and provider-based methods by which data are secured and analyzed to provide indicators of health service use, health risk behavior, and outcomes relative to health status. Targets health status indicators as the basis of planning and evaluation across a wide range of health objectives and measurement characteristics examined. Introduces health information resources available through the World Wide Web and develops skills to search and access data through the Internet.

E-mail: abaqui@jhsph.edu
Enrollment minimum of 20
No Maximum

**Prerequisite: Introduction to Online Learning**
Cancelled - Department

222.641.81  PRINCIPLES OF HUMAN NUTRITION

Course offered this year
(4 credits)
Caballero, Benjamin
Provides an integrated overview of the physiological requirements and functions of protein, energy, and the major vitamins and minerals that are determinants of health and disease. Topics include dietary sources, intake levels, and biological determinants of nutrient requirements; assessment of nutrient status in individuals and populations; the role of nutrition in growth and health through the life cycle; the rationale for the development of dietary guidelines and of nutrition policies in different countries; and the role of diet on the development of chronic diseases, such as cardiovascular disease, cancer, diabetes, etc.

E-mail: bcaballe@jhsph.edu
Enrollment minimum of 10
No Maximum

Letter Grade or Pass/Fail
Prerequisite: Introduction to Online Learning; basic background in biology/medical sciences.