2007-2008
Master of Public Health
Program Manual

Full-time
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## 1. ACADEMIC CALENDAR
### 2007-2008

**JOHNS HOPKINS BLOOMBERG SCHOOL OF PUBLIC HEALTH**

### Summer Term
- **Th July 5 – F Aug 24** (37 class days, M-F)
  - New Full-time MPH Student Orientation: M July 2 – T July 3
  - Independence Day Holiday: W July 4
  - Instruction Begins for Summer Term: Th July 5
  - MPH Concentration Orientations: Th July 5 & T July 10
  - MPH Concentration Election Forms Due: M July 16
  - Completion of Academic Ethics On-line Module Due: F July 20
  - Add/Drop Period: T July 3 – W July 11
  - 1st Term Registration Deadline: W Aug 22
  - Last Class Day of Summer Term: F Aug 24

### 1st Term
- **Th Aug 30 – W Oct 24** (39 class days, M-F)
  - Instruction Begins for 1st Term: Th Aug 30
  - Add/Drop Period: Th Aug 30 – W Sept 12
  - Labor Day Recess: M Sept 3
  - Goals Analysis Due (for students matriculating June/July '07): W Oct 10
  - 2nd Term Registration Ends: W Oct 17
  - Last Class Day of 1st Term: W Oct 24

### 2nd Term
- **Th Oct 25 – F Dec 21** (39 class days, M-F)
  - Instruction Begins for 2nd Term: Th Oct 25
  - MPH Capstone Orientation: W Oct 31
  - Final Deadline for Changing Concentration Areas: W Nov 7
  - MPH Field Experience Fund Award Appls. Due: W Nov 7
  - Thanksgiving Recess: Th Nov 22 – Sun Nov 25
  - Registration Begins for 3rd Term: T Nov 20
  - Last Class Day of 2nd Term: F Dec 21

### Winter Institutes and Intersession
- **M Jan 7 – F Jan 18**
  - 3rd Term Registration Ends: W Jan 16

### 3rd Term
- **T Jan 22 – F Mar 14** (39 class days, M-F)
  - Martin Luther King, Jr.’s Birthday Recess: M Jan 21
  - Instruction Begins for 3rd Term: T Jan 22
  - Add/Drop Period: T Jan 22 – F Feb 1
  - Registration Begins for 4th Term: M Feb 4
  - MPH Capstone Information Form due: F Feb 15
  - Last Class Day of 3rd Term: F Mar 14
  - 4th Term Registration Ends: F Mar 14
  - Spring Recess: M Mar 17 – F Mar 21

### 4th Term
- **M Mar 24 – F May 16** (40 class days, M-F)
  - Instruction Begins for 4th Term: M Mar 24
  - Add/Drop Period: M Mar 24 – F Apr 4
  - MPH Capstone Submitted to Supervising Faculty: F April 18
  - MPH Capstone Due with Faculty Approval Letter: W April 30
  - MPH Capstone Symposium: S May 10
  - Last Class Day of 4th Term: F May 16
  - Public Health Convocation: W May 21
  - University Commencement: Th May 22
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<thead>
<tr>
<th>Monday</th>
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<tbody>
<tr>
<td>2 ORIENTATION - DAY 1 Sommer Hall</td>
<td>3 ORIENTATION - DAY 2 Sommer Hall</td>
<td>4 HOLIDAY – SCHOOL CLOSED</td>
<td>5 1ST DAY OF SUMMER TERM</td>
<td>6 8:30-9:30am: Epi course</td>
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<td>4:30pm: Ice Cream Social 1st floor Atrium</td>
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<td>9-11:20am: Policy course 1-3:15pm: Concentration Orientation, Sommer Hall 3:30-5:30pm: “Boys of Baraka” Film/Panel, Sheldon Hall</td>
<td>9-30-11am: Student Societies Info. Session, Sommer Hall 12:1-15pm: SOURCE Bus Tour 1:30-3:20pm: Env. Health course 5-6:30pm: Diversity Fair, Feinstone Hall</td>
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<td>8:30-9:30am: Epi course</td>
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<td>9:30-9:30am: Epi course</td>
<td>9-11:20am: Policy course 1-4pm: Concentration Orientation, B.D. Hall</td>
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<td>10-11am: Community Info. Session; 11am-12pm: Health Insur. &amp; E-Payment Info. Session; 12-1:30pm: Int'l Seminar, B.D. Hall 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course</td>
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<td>10am-12pm: Epi Lab 12:30-1:30pm: SOURCE Bus Tour 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course.</td>
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<td>8:30-9:30am: Epi course</td>
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<td>12 9-11:20am: Policy course 12-1:30pm: Summer Mentor Lunch meetings</td>
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<td>10am-12pm: Epi course 10:1-15pm: Ethics Information Session, B.D. Hall 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course</td>
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<td>16 CONCENTRATION ELECTION FORMS DUE</td>
<td>17 9-11:20am: Policy course 1-3pm: Core Area Information Session – Biostatistics and Epi. courses, Sheldon Hall</td>
<td>18 8:30-9:30am: Epi course 10am-12pm: Epi Lab 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course</td>
<td>19 9-11:20am: Policy course 1-3pm: Core Area Information Session – Biology, SBS, and Mng’t Sci. courses, Sheldon Hall</td>
<td>8:30-9:30am: Epi course 10am-12pm: Epi Lab 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course</td>
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<td>8:30-9:30am: Epi course crs. 9:30am: MPH Societies – Officer Elections, Sommer Hall 10am-12pm: Epi Lab 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course.</td>
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<td>10-11am: Ethics Information Session, B.D. Hall 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course</td>
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<td>23 8:30-9:30am: Epi course 10am-12pm: Epi Lab 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course (1st EXAM)</td>
<td>24 9-11:20am: Policy course 1-2pm: Practicum Information Session, Sheldon Hall</td>
<td>25 8:30-9:30am: Epi course 10am-12pm: Epi Lab 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course</td>
<td>26 9-11:20am: Policy course</td>
<td>8:30-9:30am: Epi course 10am-12pm: Epi Lab 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course</td>
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<tr>
<td>27 8:30-9:30am: Epi course 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:30pm: Interdisciplinary Enrichment Seminar, Sommer Hall</td>
<td>30 8:30-9:30am: Epi course 10am-12pm: Epi Lab 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course.</td>
<td>31 9-11:20am: Policy course 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:30pm: Interdisciplinary Enrichment Seminar, Sommer Hall</td>
<td>32 8:30-9:30am: Epi course 10am-12pm: Epi Lab 12:30-1:30pm: Epi TA Ofc.Hrs. 1:30-3:20pm: Env. Health course.</td>
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<td>8:30-9:30am: EPI MIDTERM</td>
<td>9-11:20am: Policy course</td>
<td>8:30-9:30am: Epi course</td>
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<td>12:1pm: Career Services Info. Session, W4030</td>
<td>12-1:30pm: Epi TA Ofc.Hrs.</td>
<td>12-1:30pm: Epi TA Ofc.Hrs.</td>
<td>12:30-1:30pm: Mid-Career Student Luncheon meeting, E9519</td>
<td>12:30-1:30pm: Mid-Career Student Luncheon meeting, E9519</td>
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<td>12:15pm: SOURCE Bus Tour</td>
<td>12:30-1:30pm: Env. Health</td>
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<td>6 8:30-9:30am: Epi course</td>
<td>7 9-11:20am: Policy course</td>
<td>8 8:30-9:30am: Epi course</td>
<td>9 9-11:20am: Policy course</td>
<td>10 8:30-9:30am: Epi course</td>
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<td>10am-12pm: Epi Lab</td>
<td>MIDTERM ASSIGNMENT DUE</td>
<td>10am-12pm: Epi Lab</td>
<td>10-11am: Policy course</td>
<td>12-1:30pm: Int'l Seminar, W3008</td>
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<td>12:30-1:30pm: Epi TA Ofc.Hrs.</td>
<td>1:30-3:30pm: Interdisciplinary Enrichment Seminar, Sommer Hall</td>
<td>12:30-1:30pm: Epi TA Ofc.Hrs.</td>
<td>12-1:30pm: Mid-Career Student Luncheon meeting, E9519</td>
<td>12:30-1:30pm: Epi TA Ofc.Hrs.</td>
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<td>1:30-2:00pm: Env. Health course</td>
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<td>13 8:30-9:30am: Epi course</td>
<td>14 9-11:20am: Policy course</td>
<td>15 8:30-9:30am: Epi course</td>
<td>16 9-11:20am: Policy course</td>
<td>17 8:30-9:30am: Epi course</td>
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<tr>
<td>10am-12pm: Epi Lab</td>
<td>MIDTERM ASSIGNMENT DUE</td>
<td>10am-12pm: Epi Lab</td>
<td>10-11am: Policy course</td>
<td>10-11am: Nemours Health Info. Session, B.D. Hall</td>
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<td>12:30-1:30pm: Epi TA Ofc.Hrs.</td>
<td>1:30-3:30pm: Interdisciplinary Enrichment Seminar, Sommer Hall</td>
<td>12:30-1:30pm: Epi TA Ofc.Hrs.</td>
<td>1:30-3:30pm: Mid-Career Student Luncheon meeting, E9519</td>
<td>12:30-1:30pm: Epi TA Ofc.Hrs.</td>
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<td>20 8:30-9:30am: Epi course</td>
<td>21 9-11:20am: Policy course</td>
<td>22 8:30-9:30am: Epi course</td>
<td>23 9-11:20am: Policy course</td>
<td>24 8:30am-12:30pm: Epidemiology – FINAL EXAM</td>
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<tr>
<td>10am-12pm: Epi Lab</td>
<td>MIDTERM ASSIGNMENT DUE</td>
<td>10am-12pm: Epi Lab</td>
<td>FINAL ASSIGNMENT DUE</td>
<td>12:00-1:30: Student Pizza Lunch Feinstone Hall</td>
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<td>12:30-1:30pm: Epi TA Ofc.Hrs.</td>
<td>DEADLINE FOR 1ST TERM REGISTRATION</td>
<td>12:30-1:30pm: Epi TA Ofc.Hrs.</td>
<td>DEADLINE FOR 1ST TERM REGISTRATION</td>
<td>LAST DAY OF SUMMER TERM</td>
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<td>27 <em><strong>BREAK</strong></em></td>
<td>28 <em><strong>BREAK</strong></em></td>
<td>29 <em><strong>BREAK</strong></em></td>
<td>30 1ST TERM BEGINS</td>
<td>31 1ST TERM BEGINS</td>
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2.1 MPH PROGRAM FACULTY EXECUTIVE BOARD

The Johns Hopkins MPH Program is governed by the MPH Executive Board composed of faculty from all departments of the Johns Hopkins Bloomberg School of Public Health.

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3. OVERVIEW OF THE MPH PROGRAM

3.1 Objectives

The overarching goal of the MPH Program is to provide students with a population perspective on health. The Hopkins MPH Program is designed to prepare students to tackle current and emerging global public health problems such as pandemic flu, AIDS, bioterrorism, obesity, diabetes, disparities in access to health care, and many other critical public health problems.

The Johns Hopkins MPH Program recognizes that in today’s world, a thorough and rigorous public health education must embrace multiple areas including: biostatistics, environmental health, epidemiology, health services administration, social and behavioral sciences, biological sciences, ethics, the role of information technology in health, health policy and law in health. The Johns Hopkins MPH Program is designed to provide students with critical multidisciplinary training to help solve global health problems.

In order to assure that all students have the core competencies in a number of critical areas, students are required to complete a core MPH curriculum that comprises approximately half the credits required for graduation. Students have flexibility to design the other half of their curriculum in order to customize the program to their area of interest and the appropriate balance between depth and breadth.

3.2 Competencies

All MPH students should graduate having achieved competencies in the following areas:

Biostatistics and Epidemiology Competencies

1. Identify, access, and display in tables or graphs data relevant to disciplines of public health.
2. Evaluate the quality and comparability of data and utilize appropriate methodology for combining relevant data from different sources.
3. Understand basic demographic techniques used in measuring the health of populations.
4. Understand the major study designs for obtaining quantitative information relevant to public health questions from surveillance data, other observational studies, community-based research, or controlled trials.
5. Design a surveillance system for a disease or condition of public health importance.
6. Understand commonly used public health measures, such as relative risk, attributable risk and relative hazards, and select appropriate statistical methods for estimating such measures in the presence of covariates.
7. Interpret descriptive and inferential statistics resulting from data analysis and draw relevant conclusions.
8. Critique the study design and quantitative methods used in published literature and appropriately interpret the findings.
9. Attain a minimal level of competence in the effective access of frequently used literature databases, government data bases and appropriate software packages.
10. Apply ethical principles to the collection and use of data emanating from public health, epidemiologic and community intervention research.

Environmental Health Sciences Competencies

1. Define the major environmental agents (i.e., environmental chemical, biological, and physical agents that cause adverse effects on human health) and their sources, natural and anthropomorphic.
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.

Public Health Biology Competencies

1. Describe the biological bases, e.g. molecular, cellular, and physiological, for the major determinants of human disease including infectious disease, nutritional deficiencies, and exposure to toxic environmental agents.

2. Describe the ecological principles that determine the distribution of infectious disease in human populations.

3. Apply principles of human immune system function to explain the rationale and mode of action of existing and potential methods of immunization.

4. Explain the role of genetic determinants in human disease and disease susceptibility caused by infectious agents, nutritional deficiencies and exposure to toxic agents, and in microbial virulence.

5. Apply biological principles to development of disease prevention, control, or management programs.

6. Apply biological principles to assessment of risk from potentially hazardous agents and behaviors.

Management Sciences Competencies

1. Describe the organization and structure of a health service system.

2. Evaluate basic models of health delivery systems.

3. Assess major approaches to managing and improving health services organizations, including approaches to process improvement, strategic planning, and organizational design.

4. Apply performance improvement concepts and tools in revising a specific process within an organizational setting.

5. Apply key concepts of human resource management to achieving the strategic objectives of health service organizations.

6. Prepare a basic budget.

Social & Behavioral Sciences Competencies

1. Describe the psychological and sociological conceptualizations of health, health behavior, and illness.

2. Describe and compare theories and principles of behavior change. Analyze their applicability to diverse populations and different types of health behavior problems, including interactions among biology, behavior, and environment.

3. Describe the concepts of stress, coping and social support, their inter-relationships and assess their impact on health, health behavior, and illness.

4. Analyze and predict the influence of major social structural divisions such as age, gender, socioeconomic status, and ethnicity on health, health behavior, and the treatment of illness.

5. Formulate behavioral, communication, educational, advocacy, health promotion, and community-based participatory strategies for improving the health of communities and individuals and preventing disease and injury.

6. Evaluate processes and outcomes of social and behavioral interventions on the health of communities, families, and individuals.

7. Demonstrate a cross-cultural awareness and sensitivity for the implementation and evaluation of health behavior change programs.
Health Policy & Ethics Competencies

The MPH Program also considers it important that public health professionals obtain an understanding of the role of governments and policy in public health. It is expected that MPH students obtain competencies in this area that include:

1. Analyze and critique the government’s role in health policy and how political processes have shaped that role.
2. Recognize the institutional and political actors central to the formation and implementation of health policy.
3. Analyze and evaluate the process of public policy-making and how it affects the design, implementation, and performance of health policies.
4. Collect, analyze, and synthesize information about health policy problems and issues.
5. Identify the practical and political constraints of policy formulation and implementation.
3.3 Summary of Graduation Requirements

- A total of 80 units are required for graduation. Students must complete the MPH core curriculum as detailed in section 4.
- At least 60 of the 80 units must be in School of Public Health formal coursework that is not special studies, i.e. independent studies.
- All courses that are part of the core curriculum (except for the MPH Capstone Project) must be taken for a letter grade if the course is offered for a letter grade, and students must receive a grade of “C” or higher. Students electing an optional concentration must also receive a grade of “C” or higher in courses offered for a letter grade that apply to meet concentration area requirements.
- All students are required to complete an individualized MPH Goals Analysis within two terms of matriculation (see section 6).
- All students must also complete a MPH capstone project. The goal of the MPH capstone project is to give all students an opportunity to synthesize, integrate and apply the skills and competencies they have acquired to a public health problem (see section 9).
- Obtain practicum experience in population health prior to graduation (see section 8).
- All students must maintain minimum academic standards and have satisfactory grades as detailed below in section 3.4.
- Students are required to complete the Academic Ethics online module by July 20th (see section 7).

Note: A repeated course may only count once toward the 80 unit requirement.

Special Note to Combined Degree Program Candidates (e.g. MSN/MPH, MBA/MPH, MSW/MPH, JD/MPH): Students should check with their advisors to be sure they are meeting the combined program requirements.

Special Note on Courses Taken at JHSPH While Not Formally Matriculated as an MPH Degree Seeking Student: A limited number of course units taken at Johns Hopkins prior to matriculation into the MPH Program (e.g. 16 as a special student and 40 units as a regular special student or other degree program) can be applied toward the 80 credits, provided the credits were completed not more than 3 years prior to the date of matriculation into the MPH Program.

3.4 Academic Standards

Students must meet minimum academic standards to remain in the MPH Program. If a student fails to meet any of the criteria below, then it is grounds for dismissal from the program.

1. To maintain good academic standing, a student must maintain a minimum of 2.50 cumulative grade point average. Students falling below 2.50 will have one term, or 12 additional units of coursework, to raise the GPA above 2.50.
2. Students must maintain a grade of “C” or better in all required courses that are offered for a letter grade in the core curriculum and courses applied to meet concentration area requirements that are offered for a letter grade.
3. If a student receives a grade of “D” or “F” two times in the same required course, they may not repeat the course a third time. Students may choose another course option, if any are available, to fulfill the requirement. However, if the course is a required core course with no other options, that is grounds for dismissal.
4. Students may not accrue more than 9 units of “incomplete” (I or X) coursework at any given time.
3.5 Paths to the Johns Hopkins MPH

The Johns Hopkins MPH can be completed either through full-time study or part-time/Internet-based study. The 80 units required for graduation can be comprised of a mix of on-site courses during the regular academic year, special intensive Institute courses, Internet courses, and courses offered in various locations off the main East Baltimore campus.

**Full-Time Path:**

The full-time program requires eleven months of study at the Johns Hopkins Bloomberg School of Public Health main campus in Baltimore, from early July through the following May. The courses are sequenced to provide the introductory MPH core requirements early in the academic program, followed by advanced and elective courses in the later part of the academic year. Most courses are offered in a face-to-face format during daytime hours. However, students may supplement their schedules through participation in off-campus and Internet-based offerings. Daily interaction with professionally and culturally diverse students serves to expand learning opportunities and broaden perspectives.

**Part-Time/Internet-based Path:**

Part-time/Internet-based students complete the degree within three years of matriculation through a combination of online courses, and in-person classes taken either on the East Baltimore campus during regular academic terms, in intensive learning summer and winter institutes, or at other sites where Johns Hopkins Bloomberg School of Public Health classroom-based courses are offered for credit. Students can earn up to 80% (64 units) of their academic credits online. The remaining 20% (16 units) must be earned in a traditional on-site face-to-face format.

**Time Limit for Part-time/Internet-based Paths**

Students are expected to complete the MPH degree within three years after they matriculate. Students who anticipate exceeding the time limit must submit an appeal for an extension to their faculty advisor and MPH Executive Board. This appeal must include an explanation for why the extension is needed and a plan for completion by the end of the student’s fourth year. If the degree is not completed by the fourth year, a second petition will be submitted and must be approved by the faculty advisor, the MPH Executive Board, and the Committee on Academic Standards.
4. MPH CORE CURRICULUM

The core curriculum of the MPH Program includes grounding in critical disciplines and competencies in public health including: biostatistics, epidemiology, social and behavioral determinants of health, management sciences, public health problem-solving, computer applications, demography, environmental science, biological sciences, and monitoring the health of populations including disease surveillance.

The core curriculum also provides an opportunity to apply the skills and competencies acquired to practical public health problems through the MPH capstone experience.

4.1 Required Courses

The following courses are required of ALL MPH students:

180.601: *Environmental Health* (5 units) [onsite & online]

340.601: *Principles of Epidemiology* (5 units)
   OR 550.694-695: *Fundamentals of Epidemiology I & II* [online only] (6 units)

300.645: *Making Change through Policy* (5 units)
   OR 550.608: *Problem Solving in Public Health* (4 units)

*MPH Individualized Goals Analysis requirement*
   [Must be completed within 2 terms of matriculation, by October 10, 2007.]

*MPH Capstone Project* (2+ units) (see Section 9 for more information)

In addition to the above courses, as part of the MPH core requirements, students must also complete requirements in four additional areas described below: Biostatistics; Public Health Biology; Management Sciences; and Social & Behavioral Sciences.

Many, but not all of the courses listed under the core curriculum are also offered on the Internet. However, at least one course in each of the four required areas is available on the Internet. In addition, some of the courses are offered in the intensive learning institutes (see sections 10 & 11.) Described below are the course options that satisfy the requirements in each of the 4 areas:

**BIOSTATISTICS (6-16 units; choose one of the following course sequences)**

Provides conceptual understanding of statistical ideas and methods; limited calculations.
140.611-612: *Statistical Reasoning in Public Health I-II* [onsite & online] (3 units per term)

Covers statistical concepts and calculations for data analysis; develops statistical computing skills.
140.621-623: *Statistical Methods in Public Health I-III* (4 units per term)

Presents statistical methods for advanced students. Requires knowledge of calculus/linear algebra.
140.651-654: *Methods in Biostatistics I-IV* (4 units per term)
PUBLIC HEALTH BIOLOGY (2-6 units; choose one of the following)

Appropriate for all students. Provides a broad introduction to public health biology.
550.630: Public Health Biology [onsite & online] (3 units)

The following courses are for students possessing considerable breadth of biological competence, subject to concurrence of the advisor.

120.620: Fundamentals of Reproductive Biology [onsite only] (3 units)
182.640: Food- and Water- Borne Diseases [onsite only] (3 units)
183.631: Fundamentals of Human Physiology [onsite & online] (4 units)
187.610: Public Health Toxicology [onsite & online] (4 units)
222.641: Principles of Human Nutrition [onsite only] (4 units)
223.689: Biological Basis of Vaccine Development [onsite only] (3 units)
260.636: Evolution of Infectious Diseases (3 units) [onsite only]
380.761: STI Prevention: Using Epidemiology to Inform Policy & Prog. [onsite & online] (4 units)
260.635: Biology of Parasitism [onsite only] (6 units)
260.652: Principles of Public Health Ecology [onsite only] (4 units)
260.656: Malariology [onsite only] (4 units)
260.845: Major Global Infectious Diseases: Prospects for Control [Winter Institute] (2 units)
340.612: Epidemiologic Basis of Tuberculosis Control [onsite & online] (2 units)
340.646: Epidemiology & Public Health: Impact of HIV & AIDS [onsite & online] (4 units)
340.654: Epidemiology & Natural History of Human Viral Infections [onsite & online] (6 units)
340.744: Advanced Topics on Control & Prevention of HIV/AIDS [onsite & online] (4 units)

MANAGEMENT SCIENCES (3-5 units; choose one of the following)

Appropriate for students desiring organizational management skills/tools geared towards healthcare.
551.601: Managing Health Service Organizations [onsite & online] (4 units)
Similar to 551.601 except with an international orientation.
221.706-707: Managing Health Systems in Developing Countries I-II [online only] (5 units)
Appropriate for students desiring management skills with a focus on budgetary and financial issues.
551.603: Fundamentals of Budgeting and Financial Management [onsite & online] (3 units)
Appropriate for students desiring management skills with a focus on factors influencing access to, use, management, policies, and financing of pharmaceuticals in developing countries and under-served populations in developed countries.
551.607: Pharmaceuticals Management for Under-Served Populations (3 units)
Appropriate for students desiring mng’t. skills with a focus on the governance & mng’t. of non-gov’t’l organizations.
551.608: Managing Non-Governmental Organizations in the Health Sector (3 units)
Appropriate for students desiring management skills with a focus on total quality management methods for health systems in developing countries.
221.722: Quality Assurance Mng’t Methods for Developing Countries [onsite & online] (4 units)
Appropriate for those pursuing occupational health or industrial hygiene.
182.623: Occupational Safety and Health Management (3 units)
Appropriate for students focusing primarily on public health practice concepts in the U.S., but with relevance to developing nations.
305.607: Public Health Practice [onsite & online] (4 units)
SOCIAL & BEHAVIORAL SCIENCES (3-4 units; choose one of the following)

Appropriate for students wanting a broad introduction to the social and behavioral sciences.
410.616: Social and Behavioral Aspects of Public Health [onsite only] (4 units)

Appropriate for students interested in community, individual, and organizational behaviors in developing countries.
221.688: Social and Behavioral Foundations of Primary Health Care [online only] (4 units)
224.689: Founds. of Behavior Change Interventions in Devel. Countries [onsite only] (4 units)

Appropriate for students interested in various ways in which social and psychological factors influence health.
410.613: Psychosocial Factors in Health and Illness [onsite only] (4 units)

Appropriate for students interested in a psychological approach to understanding behavior change and designing health communications.
410.650: Introduction to Persuasive Communication: Theories & Practice [onsite only] (4 units)

Appropriate for students interested in design and implementation of health promotion programs.
410.620: Fundamentals of Health Education & Health Promotion [onsite & online] (3 units)
410.651: Comm. Strategies for Health Education & Health Promotion [onsite only] (4 units)

Appropriate for students wanting to understand which fundamental social processes affect the occurrence of mental and behavioral disorders.
330.661: Social, Psychological, and Developmental Processes in the Etiology of Mental Disorders [onsite only] (3 units)

Appropriate for students interested in population-based, lifespan approach to health.
380.604: Life Course Perspectives on Health [onsite & online] (4 units)

Additional Social & Behavioral Sciences course options for School of Nursing students only:
NR 100.555: Child Development
NR 100.589: Human Development and Family Theory (NP track)

Recommended (But Not Required) Courses

In addition to the required coursework, MPH students are also highly recommended to gain an appreciation of the history of public health. Some courses which this can be achieved include:

340.642: History of Epidemiology I: Infectious Diseases [onsite only] (2 units)

340.643: History of Epidemiology II: Epidemiology & Public Health [onsite only] (2 units)

550.605: History of Public Health [onsite & online] (2 units)
### MPH Core Course Schedule, 2007/2008
(Includes East Baltimore and Internet courses)

<table>
<thead>
<tr>
<th>Summer</th>
<th>1st Term</th>
<th>2nd Term</th>
<th>3rd Term</th>
<th>4th Term</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Biostatistics – 3 Options</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3: 140.651(4) Biostatistics I* T &amp; Th 10:30-11:50am</td>
<td>3: 140.652(4) Biostatistics II§ T &amp; Th 10:30-11:50am</td>
<td>3: 182.640(3) Food &amp; Water-Borne Dis, T&amp;Th 1:30-2:50pm</td>
<td></td>
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<tr>
<td><strong>Biological Sciences – 17 Options</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>6: 550.630(3) Public Health Biology M&amp;W 1:30-2:50pm</td>
<td>7: 551.603(3) Fund of Budgeting &amp; Financial Mgmt, M 3:30-5:50pm</td>
<td>Prerequisite: 340.646</td>
<td></td>
<td></td>
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<tr>
<td><strong>Management Sciences – 8 Options</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2: 551.601(4) Mng Health Services Organizations T &amp; Th 8:30-10:20am</td>
<td>4: 305.607(4) Public Health Practice T&amp;Th 8:30-10:20am</td>
<td>5: 551.601(4) Mng Health Services Orgs [Internet]</td>
<td>6: 221.707 (3) Mgmt Hlth Systems in Dev Countries [Internet][/]</td>
<td></td>
</tr>
<tr>
<td><strong>Social &amp; Behavioral Sciences – 9 Options</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1: 224.688(4) Social &amp; Behav Founds of Primary Health Care [Internet]</td>
<td>1: 221.688 (4) Social &amp; Behav Foundations of Primary Hlth [Internet]</td>
<td>7: 410.650(4) Intro to Persuasive Comm T&amp;Th 1:30-2:30pm</td>
<td>3: 410.620(3) Fund Hlth Edu &amp; Hlth Prom [Internet]</td>
<td></td>
</tr>
<tr>
<td>3: 410.620(3) Fund Hlth Edu &amp; Hlth Prom T&amp;Th 3:30-4:50pm</td>
<td>3: 410.613(4) Psychosocial Factors Hlth &amp; Ill., M&amp;W 1:30-3:20pm</td>
<td>9: 330.661 (3) Soc, Psychol &amp; Develop: Etiology of Mental Disorders M&amp;W 1:30-2:50pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4: 380.604(4) Life Course Perspectives on Health M&amp;W 1:30-2:30pm [Onsite &amp; Internet]</td>
<td>4: 380.604(4) Life Course Perspectives on Health [Internet]</td>
<td>6: 221.706 (2) Mgmt Hlth Syst. in Dev Countries [Internet]*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8: 551.608(3) Mng Non-Govt Orgs/Hlth. Sector M 5:30-8:30pm</td>
<td>8: 551.608(3) Mng Non-Govt Orgs/Hlth. Sector M 5:30-8:30pm</td>
<td>8: 551.608(3) Mng Non-Govt Orgs/Hlth. Sector M 5:30-8:30pm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Course lasts for two terms; £Course lasts for three terms; †Course lasts for four terms; §Course continued from previous term.
Course schedules are subject to change. Check the course database for the current schedule: [http://commprojects.jhsph.edu/courses/](http://commprojects.jhsph.edu/courses/)
4.3 Summer Curriculum and Schedule

During the first Summer term of study, new full-time MPH students will take three courses in July and August. These courses are:

- 180.601: *Environmental Health* (5), Jonathan Links
- 300.645: *Making Change through Policy* (5 units), Stephen Teret [offered Pass/Fail]

One book that you will be using this summer in your coursework is:


Several special events will also occur over the summer including orientation sessions about customized programs of study and optional concentrations on Thursday, July 5th from 1:00-3:15pm and Tuesday, July 10th from 1:00-4:00pm, several informational sessions about the MPH curriculum will be held on Tuesdays and Thursdays at 1:00pm, and Fridays from 10:30-11:30am.
4.4 Modifications of Core Course Requirements

In some exceptional circumstances, students may petition for a modification of a core requirement if they can demonstrate and document that they have previously acquired the core competencies. Even if a modification is granted of a core course, 80 units are still required for graduation. The documentation necessary to grant a modification will, in general, require the title of previous course(s), name of instructor(s), textbook(s) used, summary of course syllabi, and grade(s) received. In addition, modifications for some core courses will require taking an examination.

If you would like to request a modification of a core requirement, please contact the following Associate Chairs of the MPH Program:

- Principles of Epidemiology Course. Contact Ms. Susan Tonascia, stonasci@jhsph.edu
- Public Health Biological Area. Contact Dr. John Scocca, jscocca@jhsph.edu
- Environmental Health Course. Contact Dr. Jackie Agnew, jagnew@jhsph.edu
- Management Sciences Area. Contact Dr. Laura Morlock, lmorlock@jhsph.edu
- Biostatistics & Epidemiology Area. Contact Dr. Marie Diener-West, mdiener@jhsph.edu
- Social & Behavioral Sciences Area. Contact Dr. George Rebok, grebok@jhsph.edu
- Making Change through Policy Course or Problem Solving in Public Health Course. Contact Dr. Andrea Ruff, aruff@jhsph.edu
5. CUSTOMIZED PROGRAMS OF STUDY AND OPTIONAL MPH CONCENTRATION

MPH students may either elect an optional concentration area or customize their program of study. Regardless of what a student elects, all students must complete the MPH core course requirements and an MPH capstone experience. All students receive the same Master of Public Health degree. If a student completes the concentration requirements, a notation will be made on the academic transcript.

Currently, the MPH Program offers 10 multidisciplinary concentrations. Students elect a concentration during the Summer term (by July 16th). Upon election of a concentration, a student will be assigned a faculty advisor from the concentration area. Students electing a concentration must complete a number of required course units as specified by the concentration area over and above the MPH core course requirements. The specific number of additional units required by each concentration is variable. However, as a rough guide, of the 80 units needed for graduation, approximately half are core MPH requirements that all students must complete, approximately one quarter are course units required by the concentration area and approximately one quarter of the units are course electives.

Students may choose to customize their program of study instead of electing a concentration. Students who customize their program of study complete the core MPH requirements and then choose elective courses for the remaining units in consultation with their faculty advisors. Students who elect to customize their program of study will be assigned an appropriate faculty advisor by the MPH Program after carefully taking into account the students’ interests and goals. Students who customize their program also complete an MPH capstone experience under the direction of a faculty supervisor in an area of their choosing. Students who customize their program are required to complete at least one unit of special studies in both 3rd and 4th terms and to complete both written and oral components as part of their MPH capstone project.

Students should consider many factors when deciding whether to elect a concentration or to customize the program of study. Students may decide to elect a concentration for a number of reasons. For example, the concentrations provide students with a menu of courses that may serve as a guide when planning curricula. A concentration can provide students with an academic home and the opportunity to interact with other students and faculty who share similar academic interests. The MPH capstone experience in a concentration area may be more structured and focused on topics related to the concentration. On the other hand, students may decide that a customized program of study is more appropriate for several reasons. A customized program allows students the flexibility to tailor their programs to specific interests and professional goals. A student may have academic objectives that do not precisely fit into the concentration areas. Or perhaps, a student may not yet have determined a specific area of focus in public health and prefers the flexibility to sample a variety of courses and topics throughout the academic year.

On July 5th and 10th, the MPH Program will hold special orientations about customized programs of study and the concentration options. Students will need to complete a concentration/customized election form by Monday, July 16, 2007.
Once that is completed, students will be assigned an academic advisor for the year based on interests and goals. There are 10 MPH concentrations. The curriculum for each are explained in detail on pg. 38-68.

**Electing a Concentration**

Some frequently asked questions concern electing more than one concentration and changing concentrations. MPH students may elect only one area of concentration. Students are always free to change from a concentration to a customized course of study at any time during the academic year. However, after the end of the add/drop period of second term (Wed., Nov. 7th), students may not change from one concentration area to another concentration area. Students may only change into a new concentration if they have met the 1st term requirements for that concentration and they must notify the MPH Program Office and Concentration Directors by Wednesday, November 7th.

**Certificate Programs**

The School also offers certificate programs in specific areas of study. Concentrations and certificate programs differ in that concentrations are intended specifically for MPH students and incorporate faculty advising and the capstone experience within the concentration. Some of the certificate programs are intended for students who are not seeking a degree, but taking courses on a continuing education basis. Other certificate programs are open to degree seeking students. MPH students may pursue a certificate program, but generally may not enroll in both a concentration and a certificate program in the same academic area e.g. the Maternal & Child Health Certificate Program and the Child & Adolescent Health Concentration. For more information, see [http://commprojects.jhsph.edu/academics/Certificate.cfm](http://commprojects.jhsph.edu/academics/Certificate.cfm), and contact the faculty sponsors of the certificate programs listed on the website.

The pie charts above illustrate the approximate distribution of academic units with an optional concentration or a customized plan. The exact number of credits varies depending on the courses chosen to satisfy core requirements and the specific requirements of the particular concentration.

Students with an interest in international health will have ample opportunity to apply their knowledge to global health and developing country issues in any of these concentrations.
6. MPH Individualized Goals Analysis Requirement

The purpose of the MPH Individualized Goals Analysis requirement is to give you an opportunity to effectively plan your MPH education early in your program with the support and guidance of your faculty advisor. This project is intended to be a living document, one which you and your advisor review and update as you make changes in focus and direction. Students are expected to participate in School activities and MPH society events to help establish their goals. It should also serve as a springboard for discussion of career opportunities as the year progresses.

The requirement must be completed and received by the MPH Program Office two weeks before the end of the second term following matriculation into the program. For example, full-time students who start in summer 2007 are required to complete this project by October 10, 2007. You can find more detailed information about the Goals Analysis requirement at the website: http://www.jhsph.edu/academics/degreeprograms/mph/current_students/goals.html

The final product of this requirement is a paper (2-3 pages in length) and a completed MPH curriculum checklist detailing your goals and objectives, an academic plan, and an assessment of how this plan will meet your stated goals. In order to fulfill the Goals Analysis requirement, you are asked to complete the following steps in close collaboration with your advisor:

**Step 1**: Briefly explain what knowledge, skills and experiences you bring to the program.

**Step 2**: Identify your goals for your education by explaining what you hope to gain in terms of knowledge, skills, personal and professional contacts, and other experiences while a student in the MPH program. Review the list of MPH core competencies with your advisor. You are encouraged to identify additional competencies particularly relevant to your professional future. Describe one or more potential capstone project topics and identify possible faculty mentors.

**Step 3**: Complete a “working copy” of the MPH Curriculum Planning and Tracking form (see pages 24-26) by developing a tentative course plan for your entire MPH program. Identify what courses and special studies you intend to take and when you plan to complete your courses. Course descriptions in the catalog indicate when courses are generally offered. Your tracking form should include a tentative list of electives you plan to complete.

**Step 4**: Carefully review your paper and a hardcopy of the tracking sheet with your advisor to ensure the proposed curriculum is not only feasible, but that it meets program requirements. Assess if your curriculum plan is aligned with the goals you identified in Step 2.

**Step 5**: In order to complete the Goals Analysis requirement, your paper and tracking form must be submitted electronically to the MPH Program Office. Before you submit the electronic Goals Analysis form, make sure that your advisor has approved your project. When you submit the electronic form, your advisor will automatically receive an email message from the MPH Office acknowledging his/her approval of your project. Submit your Individualized Goals Analysis online at http://commprojects.jhsph.edu/communications/mph/GoalsForm.cfm.
The due date for the MPH Individualized Goals Analysis is Wednesday, October 10, 2007.

All Students: The Goals Analysis requirement is intended to help you in planning your program with your faculty advisor. Your paper must be received two weeks before the end of your second term of matriculation into the MPH Program.

<table>
<thead>
<tr>
<th>Goals Analysis Key Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, October 10, 2007:</td>
</tr>
<tr>
<td>Goals Analysis due for students matriculating in July 2007.</td>
</tr>
<tr>
<td>Submit electronic form at:</td>
</tr>
<tr>
<td><a href="http://commprojects.jhsph.edu/communications/mph/GoalsForm.cfm">http://commprojects.jhsph.edu/communications/mph/GoalsForm.cfm</a></td>
</tr>
</tbody>
</table>
### 6.1 Curriculum Planning and Tracking Sheet

**MPH Individualized Goals Analysis**

**Working Copy:** Please submit your final Individualized Goals Analysis online at [http://commprojects.jhsph.edu/communications/mph/GoalsForm.cfm](http://commprojects.jhsph.edu/communications/mph/GoalsForm.cfm)

<table>
<thead>
<tr>
<th>Units</th>
<th>Term/Year</th>
<th>Term/Year</th>
<th>Grade</th>
</tr>
</thead>
</table>

#### 1. CORE REQUIREMENTS

- **Problem Solving in Public Health**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Principles of Epidemiology**
  - 5 units
  - Planned: ________
  - Completed: ________

  or **Fundamentals of Epidemiology I-II**
  - 6 units
  - Planned: ________
  - Completed: ________

- **Environmental Health**
  - 5 units
  - Planned: ________
  - Completed: ________

#### 2. BIOSTATISTICS [6-16 units; choose one of the following course sequences]

- **Statistical Reasoning in Public Health I-II**
  - 3 units per term
  - Planned: ________
  - Completed: ________

- **Statistical Methods in Public Health I-III**
  - 4 units per term
  - Planned: ________
  - Completed: ________

- **Methods in Biostatistics I-IV**
  - 4 units per term
  - Planned: ________
  - Completed: ________

#### 3. PUBLIC HEALTH BIOLOGY [2-6 units; choose one of the following]

- **Public Health Biology**
  - 3 units
  - Planned: ________
  - Completed: ________

- **Public Health Toxicology**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Fundamentals of Human Physiology**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Food- and Water-borne Diseases**
  - 3 units
  - Planned: ________
  - Completed: ________

- **Malariology**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Biology of Parasitism**
  - 6 units
  - Planned: ________
  - Completed: ________

- **Principles of Human Nutrition**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Biological Basis of Vaccine Development**
  - 3 units
  - Planned: ________
  - Completed: ________

- **Sexually Transmitted Infections Prevention**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Principles of Public Health Ecology**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Major Global Infectious Diseases**
  - 2 units
  - Planned: ________
  - Completed: ________

- **Epidemiologic Basis of Tuberculosis Control**
  - 2 units
  - Planned: ________
  - Completed: ________

- **Fundamentals of Reproductive Biology**
  - 3 units
  - Planned: ________
  - Completed: ________

- **Epi. & Public Health: Impact of HIV & AIDS**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Epi. & Natural History of Human Viral Infections**
  - 6 units
  - Planned: ________
  - Completed: ________

- **Advanced Topics on Control & Prevention of HIV/AIDS**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Evolution of Infectious Diseases**
  - 4 units
  - Planned: ________
  - Completed: ________

#### 4. MANAGEMENT SCIENCES [3-5 units; choose one of the following]

- **Public Health Practice**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Managing Health Service Organizations**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Occupational Safety and Health Management**
  - 3 units
  - Planned: ________
  - Completed: ________

- **Mng. Hlth. Systems in Devel. Countries I-II**
  - 5 units
  - Planned: ________
  - Completed: ________

- **Quality Assur. Mng’t. Methods for Devel. Countries**
  - 4 units
  - Planned: ________
  - Completed: ________

- **Fundamentals of Budgeting & Financial Management**
  - 3 units
  - Planned: ________
  - Completed: ________

- **Pharmaceuticals Management for Under-Served Pops.**
  - 3 units
  - Planned: ________
  - Completed: ________

- **Managing Non-Governmental Orgs. in the Health Sector**
  - 3 units
  - Planned: ________
  - Completed: ________
5. SOCIAL & BEHAVIORAL SCIENCES  
[3-4 units; choose one of the following]

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<tr>
<th>Course</th>
<th>Units</th>
<th>Term/Year Planned</th>
<th>Term/Year Completed</th>
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<tr>
<td>Social &amp; Behavioral Aspects of Public Health</td>
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<td>Social &amp; Behavioral Founds. of Primary Health Care</td>
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<td>Psychosocial Factors in Health and Illness</td>
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<td>Introduction to Persuasive Communication</td>
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<tr>
<td>Fundamentals of Health Education &amp; Health Promotion</td>
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<tr>
<td>Comm. Strategies for Hlth. Educ. &amp; Hlth. Promotion</td>
<td>4</td>
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<tr>
<td>Social &amp; Psychol. Proc.\Devel. Ment. Behav. Disorders</td>
<td>3</td>
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<td>Life Course Perspectives on Health</td>
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<td>Founds. Behav. Change Interven.\Devel. Countries</td>
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6. COURSE ELECTIVES

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<th>Term/Year Completed</th>
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7. SPECIAL STUDIES

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8. TOTAL CREDITS [Total all credits 1-7 above. Must total 80 or more; #1-6 combined must be at least 60 units in School of Public Health courses.]

Special note to Part-time/Internet-based MPH students: Students must complete at least 16 units in coursework in a traditional face-to-face format (i.e., not over the Internet).

Number of Face-to-Face Units ________

9. PRACTICUM REQUIREMENT

If you have not previously had a practicum experience in population-based health, you are expected to do so during your course of study. In that case, describe how you plan to obtain this experience. Or if you have already had a practicum experience, please describe your previous experience.

Have you previously had a practicum experience in population-based health? Yes___ No___
(Please either outline your plans for obtaining such an experience or describe the experience below.)

______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
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APPROVAL

I approve both the Goals Paper and this MPH Curriculum Checklist:

Advisor Signature: ___________________________ Date: ______________
7. Academic Ethics Online Module

Maintaining the highest level of academic integrity is an important responsibility of our faculty and students. To help achieve this goal, all students are required to complete the Academic Ethics module, entitled “An Introduction to Academic Ethics.” The module contains information about the Academic Ethics Code of the School, along with related case studies and discussions of situations students and faculty may face. You will need to become familiar with the Academic Ethics Code of our School, and should briefly review it before starting the module.

An orientation about academic ethics will be held on Friday, July 20th from 10:30-11:30am in the Becton Dickinson Lecture Hall.

MPH students are required to complete the Academic Ethics module by Fri., July 20th. You must use your @jhsph.edu email account to enter the module at:
http://apps1.jhsph.edu/academicethics/

**Academic Ethics Module Deadline:**

Friday, July 20, 2007
8. Practicum Experience in Population-based Health

The MPH Program expects students to obtain a significant practicum experience in population-based health prior to graduation. A practicum experience involves hands-on experience working and interacting with public health professionals. Some students will have had significant experiences prior to matriculation as an MPH student. However, other students without such prior experience are expected to do so during their course of study. For example, students with no hands-on experience in population-based health, other than completing all or part of a medical, law, or other doctoral program curriculum prior to matriculating into the MPH Program are expected to complete a practicum during their course of study. While all students are encouraged to obtain a practicum experience, the MPH Program will notify during the summer those students without adequate prior experience who will need to complete a practicum during the academic year.

The goal of the MPH mentored practicum is to have a practical public health experience that provides mentoring, contact with public health professionals, and the opportunity to participate in a meaningful way.

Students may complete a practicum during any academic term or during the January intersession period. Although the duration and intensity of commitment is variable and flexible depending on the practicum situation, it is expected that students should earn at least 2 units of special studies academic credit under the mentorship of a Bloomberg School of Public Health faculty.

Opportunities for Practicum Experiences in the MPH Program

There are numerous opportunities to obtain a practicum experience. If interested in any of these specific opportunities, please follow-up with the contacts and websites listed below. Enrollment in various programs may be limited by the number of available internships or practicums. Ms. Tara Hardy, in the MPH Program office (thardy@jhsph.edu), can also help answer your questions.

- **Mentored Practicums with the Maryland Department of Health & Mental Hygiene and Local Health Departments**
  This program known as “PHASE” is a structured internship running 2nd-4th terms. Selection of students occur in the 1st term. Students sign up for academic credit in 2nd term (1 unit) and 3rd term (2-4 units) and 4th term (2-4 units.)
  Faculty contact: Michel Ibrahim (mibrahim@jhsph.edu)
  Website: [http://www.jhsph.edu/practice/practice_for_students/phase.html](http://www.jhsph.edu/practice/practice_for_students/phase.html).

- **Mentored Practicums with Community-based Organizations in Baltimore**
  This program in collaboration with the Student Outreach Resource Center, otherwise known as the SOURCE Program ([http://www.jhsph.edu/source/](http://www.jhsph.edu/source/)), and the Applied Public Health Program provides opportunities for students to work with various Baltimore-based community organizations and local health departments in our region. Students enroll 2nd and 3rd terms for between 1-4 units each term. Faculty contacts: Henry Taylor (hgtaylor@jhsph.edu) and Mindi Levin (mlevin@jhsph.edu)
• **Mentored Practicum in Health Care Epidemiology and Outbreak Investigation.**
  A limited number of internships are available in infection control and outbreak investigation at the Johns Hopkins Hospital. Students enroll for at least 2 units of academic credit. Faculty contact: Trish Perl (tperl@jhmi.edu)

• **International or Domestic Public Health Practice Trips**
  In collaboration with the J.B. Grant International Health Society and the Anna Baetjer Society for Public Health Practice, students have organized public health practice trips to work with various government and non-government organizations. In the past, these trips have occurred in January. There may be competitive grants to help partially defray costs of these trips (see MPH Field Experience Fund Award below.) Students sign up for special studies with faculty mentors for academic credit.

• **Courses with Significant Practicum Component**
  Completion of any of the courses below (taken for a letter grade) could satisfy the practicum.
  - **Health and Homelessness**, 410.610: Lee Bone, 3rd term, 3 units
  - **Ethnographic Fieldwork**, 410.690: Lori Leonard, 3rd term, 4 units
  - **Applications in Prog. Monitoring and Evaluation**, 380.612: Clea McNeely, 4th term, 4 units
  - **Occupational Health**, 188.681: Jackie Agnew and Peter Lees, 4th term, 5 units
  - **Hlth. Survey Research Methods**, 340.717: Susan Sherman & Vivian Go, 2nd term, 4 units

• **Population, Family & Reproductive Health Internship Resource List**
  The Department of Population, Family, & Reproductive Health maintains a list of local, national, and international internship opportunities related to population and family health. Faculty contact: Marycatherine Augustyn (maugusty@jhsph.edu)

• **Customized Opportunities**
  Students may develop their own practicum opportunity in collaboration with Bloomberg School of Public Health faculty. Partial funding may be available to help defray travel costs (see MPH Field Experience Fund Award below.) Students are expected to sign up for at least 2 units of special studies with faculty to mentor their experience.

**MPH Field Experience Fund Award**

The MPH Program sponsors awards which can be used to obtain hands-on international or domestic experiences in population health. In the past, students have applied for these awards to support travel and other expenses to work with various health organizations typically during the month of January. The awards can be used to develop an MPH capstone project. Website: [http://www.jhsph.edu/academics/degereeprograms/mph/current_students/capstone.html#Practicum_Development](http://www.jhsph.edu/academics/degereeprograms/mph/current_students/capstone.html#Practicum_Development)

The awards can be used for individual field experiences ($1,000 or $2,000 awards) or group field experiences involving multiple students ($5,000 maximum per group project.) The applications are due on November 7, 2007. The recipients will be chosen by a faculty committee by early December 2007.
Logistics for signing up for the MPH Practicum Special Studies

The MPH practicum special studies course numbers are xxx.895. The 3-digit prefix number is determined by the primary department of your faculty practicum supervisor (check with the course catalog and your advisor). You can determine the department affiliation of any faculty in the School by going to the website: http://commprojects.jhsph.edu/faculty/FacultyList.cfm

If your practicum supervisor does not have a primary appointment in the School of Public Health, it is the faculty members’ joint appointment department or if outside JHMI, the advisor’s department. If you are still uncertain, check with the MPH Program office.

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<tr>
<th>Practicum Supervisor’s Department</th>
<th>MPH Practicum Special Studies</th>
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<tbody>
<tr>
<td>Biochemistry &amp; Molecular Biology</td>
<td>120.895</td>
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<td>Biostatistics</td>
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<tr>
<td>Population, Family &amp; Reproductive Health</td>
<td>380.895</td>
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9. The MPH Capstone Project

The MPH capstone project is a graduation requirement for students in the Master of Public Health Program. 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 synthesize, integrate and apply the skills and competencies they have acquired to a public health problem that approximates a professional practice experience.

Completion of the MPH capstone project requires both written and oral components. The project is done under the direction of a faculty member, your MPH capstone supervisor. All students must complete the MPH Capstone Information Form to indicate how they will complete the written and oral requirement. The form is due by Friday, February 15, 2008.

In order to satisfy the written component, a student must write a paper. While there are no formal guidelines on the length of the paper, it is expected that the paper would be about 20 pages (ranging between 15 and 25 double spaced pages) not including references, tables and figures. The paper must include an executive summary (limited to 300 words) and references. A draft of the MPH Capstone project should be submitted to your faculty capstone supervisor by Friday, April 18, 2008 to begin the approval process. The final written project, along with a letter from your faculty capstone supervisor approving your project, is due by Wed., April 30th.

Only students who submit the final approved project by April 30th are eligible to graduate on May 21st.

The oral component is satisfied by presenting your project at the MPH symposium that is held in May, a professional meeting, seminar or alternative venue approved by your faculty capstone supervisor, or optional concentration area (if you elected one).

The capstone is typically done during 3rd and 4th terms prior to graduation, as special studies courses under the direction of a faculty member, your MPH capstone supervisor. The capstone supervisor will typically be the student’s advisor, but it need not be. Students can identify another faculty member to supervise the capstone, if it is more appropriate. Students who elect an optional MPH concentration should follow any additional specific concentration area requirements for the MPH capstone for that concentration. See pages 38-68 of this manual. The concentration faculty will provide detailed instructions.

What are the possible forms that the capstone project can take?

The capstone project can take many forms including one of the four designs below, an expansion of a course, or an internship or practicum opportunity. The overarching principle to determine if a capstone project is suitable is whether it provides students the opportunity to apply the skills and competencies acquired in the MPH program to a problem likely to be encountered in public health practice. The topic and format of the capstone project is flexible and is developed through discussions between the student and capstone supervisor. Some examples of formats for the capstone project include:
Grant Proposal or Research Plan- The capstone project would simulate a grant or research proposal. The project would include a clear statement of the research question, the specific aims of the proposal, review of literature, study design, methods of analysis, implications and significance of the work. The research question would be one that is encountered in professional work such as the evaluation of a public health intervention.

Research Report- The capstone project would involve the collection, analysis, and interpretation of data to address a public health problem. The project would include sections on the research question, study design, data collection procedures, data analysis, interpretation, and significance of findings. Please note that the appropriate IRB approval may need to be obtained for such a project.

Public Health Program Plan- The capstone project would involve the development of a plan to implement a public health program. It would address critical issues such as management, fiscal, ethical and logistical issues.

Analysis of a Public Health Problem- The capstone project would be an in-depth analysis of an important public health problem. The project would include sections that clearly describe the problem, assess the problem and its magnitude, evaluate its causes and determinants, discuss prevention and intervention strategies, and implementation and evaluation.

Students may wish to collaborate with a local public health community organization for their capstone project. The Student OUtreach Resource CEnter (SOURCE), a Johns Hopkins Medical Institution office, can be helpful in putting students in touch with local community organizations. Contact the SOURCE Director at 410-955-3880. Website: www.jhsph.edu/source/index.html

Logistics and Process for Students Who Elect a Concentration

Students who elect an optional area of concentration should follow the specific directions for that concentration. The specific requirements vary among concentrations with respect to the number of special studies units that are required and the content of the capstone. However, all students must complete both the written and oral components (see section 14.) Contact your concentration faculty directors for specific questions. Students can complete the oral requirement either at the May 10th Capstone Project symposium or an alternative venue approved by the concentration.

Logistics and Process for Students Who Customize

Students who elect to customize their MPH program should follow the specific instructions described below in this section. During 3rd and 4th terms, students MUST sign up for at least 1 credit of special studies EACH term with their capstone supervisor. The capstone supervisor will typically be the advisor, but it could also be another faculty member in the School of Public Health, the School of Medicine, or someone from the student’s workplace with the advisor’s approval and oversight in the case of the latter 2 options.
By February 15, 2008, students should notify the MPH Program Office of the title of their project and name of the capstone supervisor by submitting a Capstone Information Form.

Students may also sign up for additional special studies credits (above the minimum of 1 required unit in each of the 3rd and 4th terms) with their capstone supervisor. MSN/MPH students meet the 2 required units of special studies by signing up for the course (NR 500.606) *Public Health Nursing Leadership and Management Practicum* (community health MSN/MPH track) and (NR 500.607) *Public Health Nursing/Nursing Practitioner Practicum* (NP track).

Students are required to give a 10-minute oral presentation summarizing their capstone project that could include visuals such as a PowerPoint presentation. There will be a special capstone symposium held on Saturday, May 10, 2008 for these presentations. Students may waive out of the May symposium, if they have previously given an oral presentation on their capstone work at a professional meeting or at a departmental seminar approved by their MPH capstone supervisor. In order to have the May symposium participation requirement waived, the student must inform the MPH Office of their intent by February 15, 2008. Students must submit a signed letter from their capstone supervisor attesting to the fact that an oral requirement has been met in an alternative venue, including the name of the meeting within 7 days after giving the presentation. A prototype form to waive the oral requirement that must be signed by the capstone supervisor can be found at the capstone website at [http://www.jhsph.edu/academics/degreeprograms/mph/current_students/capstone.html](http://www.jhsph.edu/academics/degreeprograms/mph/current_students/capstone.html). All students who are on campus are required to attend the Saturday capstone symposium, even if they have presented at an alternative venue, to give support to the students who are presenting.

**Logistics for signing up for the MPH Capstone Special Studies**

The MPH capstone special studies course numbers are xxx.800. The 3-digit prefix number is determined by the primary department of your faculty capstone supervisor (check with the course catalog and your advisor). You can determine the department affiliation of any faculty in the School by going to the website: [http://commprojects.jhsph.edu/faculty/FacultyList.cfm](http://commprojects.jhsph.edu/faculty/FacultyList.cfm)

If your capstone supervisor does not have a primary appointment in the School of Public Health, it is the faculty members’ joint appointment department or if outside JHMI, the advisor’s department. If you are still uncertain, check with the MPH Program office.

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Using a course project as a MPH capstone project

Some courses in the School of Public Health require projects that could also serve as a basis for an MPH capstone project. Students may use their work from any project-oriented course as a starting basis for their capstone, but must build and expand on it for the final capstone project. Building on a project from a course may be helpful to some students because it provides additional structure and support. If a project from a course is used as a starting point for the capstone, that previous work must be placed in the list of references and the advisor will need a copy of the student’s original paper. There are numerous courses in the School that are project-oriented which could serve as a starting point for the capstone. Some examples include: (180.611) The Global Environment and Public Health and (380.671) Adolescent Pregnancy – Causes, Consequences, Interventions. Students are still required to register for the special studies units as described previously (2 units, or check for concentration specific requirements).

Getting approval from the Committee on Human Research for a MPH Capstone

Sometimes you do need approval of the Committee on Human Research (CHR). It depends on the capstone project. Specific guidelines have been prepared by Office on Human Research which can be accessed on the capstone website.

Approval Process

The final paper must be approved by the capstone supervisor for all students. The student must submit a copy of the paper along with a signed approval letter by the capstone supervisor to the MPH Program Office. A prototype of the approval letter that is required to be signed can be obtained at the capstone website.

Submit a hard copy of your paper and approval letter signed by your capstone supervisor to the MPH Program Office (Room W1015, Wolfe Street building). The final paper and approval letter must arrive at the MPH Program Office before 5pm on April 30, 2008 in order to graduate in May.

MPH Field Experience Fund Award

The MPH Field Experience Fund awards can be used to develop an MPH capstone project. The award is intended primarily to provide support for students during the January intersession period to develop their capstone project. For example, the award could be used for travel to collect data or to obtain a direct hands-on practical public health experience. The awards can be used for individual field experiences ($1,000 or $2,000 awards) or group field experiences involving multiple students ($5,000 maximum per group project.) An application for the award consists of a two-page statement outlining the capstone project and how the funds will be used. The application should also have the approval signature of either your capstone supervisor or your advisor. The applications are due November 7, 2007. The winners will be chosen by a faculty awards committee by early December 2007. Website: http://www.jhsphs.edu/academics/degreeprograms/mph/current_students/capstone.html#Practicum_Development
Honors and Awards

The MPH Program Office will be awarding special honors to the best overall capstone projects. Nominations are accepted from capstone faculty supervisors. The winners will be selected by an awards committee based on the written project. The award includes a plaque for excellence in public health professional practice. The student with the single overall best capstone project will receive a $500 award.

Internships or practicum opportunities on which to base your capstone

Students may wish to collaborate with a local public health community organization for their capstone project. The Student OUtreach Resource CEnter (SOURCE) office can be helpful in putting students in touch with local community organizations. Contact Mindi B. Levin, C.H.E.S., SOURCE Director at 410-955-3880. Website: http://www.jhspht.edu/source/. For more information about practicum opportunities, see section 8.

Capstone Project Key Dates:

Wednesday, October 31, 2007:
Capstone Information Session

Friday, February 15, 2008:
Capstone Information Forms due

Friday, April 18, 2008:
MPH Capstone submitted to supervising faculty

Wednesday, April 30, 2008:
Written project and approval letter from project supervisor due

Saturday, May 10, 2008:
Present at Capstone Project Symposium

MPH Capstone web address:
http://www.jhspht.edu/academics/degreeprograms/mph/current_students/capstone.html
## 10. Online Courses

Currently, the Johns Hopkins Bloomberg School of Public Health offers over fifty different courses over the Internet. The courses that are planned to be offered for the 2007-2008 academic year are listed below. As the course offerings may change, please periodically check the website for the most current details: [http://distance.jhsph.edu/offering/full_web.cfm](http://distance.jhsph.edu/offering/full_web.cfm)

*Introduction to Online Learning (IOL).* The IOL is an “online” course that runs for 2 weeks. You should expect to devote 12–20 hours to complete course requirements, depending on your technical abilities. Summer/Fall 2007 schedule starting dates:

- July 2nd, August 6th, September 3rd, October 1st, November 5th, December 3rd.

Registration for each offering of IOL closes at 11:59pm Eastern Time (-5 GMT) on the first day of the course. Register for the course at: [https://distance.jhsph.edu/oll/about/register/index.cfm](https://distance.jhsph.edu/oll/about/register/index.cfm)

### Summer Term: (July 5-August 24, 2007)
- 221.606: *Training Methods and Continuing Education for Health Workers* (4 units)
- 223.672: *Data Management Methods in Health Research Studies* (5 units)
- 221.688: *Social & Behavioral Foundations of Primary Health Care* (4 units)

### 1st Term: (August 30-October 24, 2007)
- 140.611: *Statistical Reasoning in Public Health I* (3 units)
- 221.639: *Refugee Health Care* (3 units)
- 221.722: *Quality Assurance Management Methods for Developing Countries* (4 units)
- 300.600: *Introduction to Health Policy* (4 units)
- 330.601: *Perspectives of Psychiatry: The Public Health Framework* (3 units)
- 340.645: *Introduction to Clinical Trials* (3 units)
- 340.654: *Epidemiology and Natural History of Human Viral Infections* (6 units)
- 380.604: *Life Course Perspectives on Health* (4 units)
- 410.755: *Health Communication Programs* (4 units)
- 550.694-695: *Fundamentals of Epidemiology I-II*+ (6 units)
- 550.862: *Current Issues in Public Health* (1 unit)

### 2nd Term: (October 25-December 21, 2007)
- 140.612: *Statistical Reasoning in Public Health II* (3 units)
- 180.620: *Nutritional Health, Food Production and the Environment* (3 units)
- 187.610: *Public Health Toxicology* (4 units)
- 221.612: *Confronting the Burden of Injuries: A Global Perspective* (3 units)
- 221.688: *Social and Behavioral Foundations of Primary Health Care* (4 units)
- 300.700: *Teaching Assistant Orientation Seminar* (1 unit)
- 313.790: *Understanding Cost-Effectiveness Analysis in Health Care* (2 units)
- 330:603: *Psychiatric Epidemiology* (3 units)
- 340.619: *Global Tobacco Control* (3 units)
- 340.646: *Epidemiology and Public Health Impact of HIV and AIDS* (4 units)
- 380.623: *Adolescent Health and Development* (3 units)
- 380.627: *Epidemiology of Infectious Diseases* (4 units)
- 550.862: *Current Issues in Public Health* (1 unit)
3\textsuperscript{rd} Term: (January 16-March 9, 2008)

180.601: Environmental Health (5 units)
221.606: Training Methods and Continuing Education for Health Workers (4 units)
221.706-707: Management of Health Systems in Developing Countries I-II* (5 units)
305.612: Epidemiology of Injuries (4 units)
309.616-617: Introduction to Methods for Health Services Research & Evaluation* (4 units)
309.730: Patient Safety and Medical Errors (3 units)
317.600: Introduction to Risk Sciences and Public Policy (3 units)
340.608: Observational Epidemiology (4 units)
340.664: Introduction to Genetic Epidemiology (4 units)
340.744: Advanced Topics on Control & Prevention of HIV/AIDS (4 units)
550.605: History of Public Health (2 units)
550.862: Current Issues in Public Health (1 unit)
551.601: Managing Health Services Organizations (4 units)
551.603: Fundamentals of Budgeting & Financial Management (3 units)

4\textsuperscript{th} Term: (March 19-May 11, 2008)

182.625: Principles of Occupational & Environmental Hygiene (4 units)
183.631: Fundamentals of Human Physiology (4 units)
220.601: Introduction to International Health (4 units)
221.637: Health Information Systems (3 units)
223.705: Clinical Vaccine Trials and Good Clinical Practice (GCP) (3 units)
380.761: STI Prevention: Using Epidemiology to Inform Policy and Program (4 units)
300.651: Introduction to the U.S. Healthcare System (4 units)
305.607: Public Health Practice (4 units)
312.633: Health Management Information Systems (3 units)
380.765: Prev. Infant Mortality & Promoting the Health of Women, Infants, & Children (3 units)
410.620: Fundamentals of Health Education and Health Promotion (3 units)
550.630: Public Health Biology (3 units)
550.862: Current Issues in Public Health (1 unit)

+This course lasts for 2 terms and begins on August 27, 2007.
*This course lasts for two terms.
11. The Intensive Learning Institutes

The Summer and Winter Institutes at the Johns Hopkins Bloomberg School of Public Health are intended to provide short-term, intensive educational opportunities for public health practitioners and other professionals. These courses can be used to earn degree credits over a limited amount of time on-campus (from a few days to three weeks in length) for students who are unable to devote full-time status to their studies during the regular academic year.

Full-time students may participate in Summer and Winter Institutes, but will be subject to the fees and tuition as set forth by the Institute – regular full-time tuition does not apply to the Institute courses. The 2008 Winter Institute will be held January 7-18, 2008.

For further information on the course offerings of these Institutes, please periodically check the websites below for the most current details.

Summer Institutes: http://www.jhsph.edu/Academics/Continuing_Ed/Summer_Institutes.html

Winter Institutes: http://www.jhsph.edu/Winter

Email questions or comments to: summer@jhsph.edu or winter@jhsph.edu
12. MPH Student Societies

There are two student-run organizations that play a critical role in the MPH Program and the School as a whole. The societies serve as an academic, professional and social vehicle to stimulate discussion, provide tangible experiences, and enhance involvement and interaction among students, faculty, and alumni with similar public health interests.

MPH students interested in leadership roles for the class are encouraged to run for one of the many offices for these societies. Elections are held early in the summer term. To learn more about the officer positions, events and programming from previous years, service trips, etc., see the websites listed below.

Each year, the societies:
- sponsors speakers and public events;
- organizes education and career trips;
- promotes student networking with alumni, faculty, and various national and international organizations; and
- holds regular lunchtime meetings.

The John B. Grant International Health Society provides a home for both U.S. and international MPH students with an interest in global health issues. Students come together with faculty and alumni to discuss current health problems in developing countries and to explore solutions to those health problems. This environment helps students select curricula that will enable them to design, implement, and evaluate programs and projects in developing countries. It also facilitates student networking with alumni and others in international health careers and helps to prepare MPH students for their careers overseas.

Faculty Mentors: Hugh Waters and Earl Wall

Website: http://www.jhsph.edu/academics/degreeprograms/mph/JBG/

The Anna Baetjer Society for Public Health Practice serves as an academic, professional, and social home for MPH students interested in programs aimed at solving a broad range of problems affecting the health of populations. These programs focus on the areas of population and family health sciences, mental health and substance abuse, infectious and chronic diseases, environmental factors in health, and the organization, utilization, and effectiveness of health service delivery systems. The Society also works to enhance the process of effective advocacy and find ways to facilitate constructive change--in short, how to make a difference.

Faculty Mentor: Holly Grason

Website: http://www.jhsph.edu/academics/degreeprograms/mph/ABS/
13. Getting Advice, Mentoring and Your Questions Answered

Of course, you will certainly have questions about the MPH Program as you adjust to life in Baltimore and to the School of Public Health. When questions come up, there are a variety of different people and offices that can help you.

Each MPH student is assigned a faculty advisor. You will be assigned an advisor before the end of the summer. The selection of your advisor will be based on your interests. If you elect a concentration, your advisor will be from that concentration area. The role of the advisor is to discuss with you your academic program and progress including your choice of courses in light of your educational and professional goals. Some students may wish to speak with their advisor frequently, but other students may find that just a brief contact (such as by email, telephone or in person) once per term is more than adequate. Your advisor needs to approve your goals analysis project, which is due within two terms of matriculation (by Wednesday, October 10, 2007.)

You will be assigned a temporary summer mentor until your advisor assignment is completed. Your summer mentor can help answer your questions or direct you to other resources.

Once you are assigned an advisor in August 2007, you should try to contact him or her. Since faculty advisors are also busy with research studies, lecturing, and frequently travel, the best way to initiate contact is to send your advisor an email to see if you can schedule a time to meet or talk by phone that is mutually convenient.

Your advisor is just your first point of contact with the faculty. We try to match students with advisors with whom they may share some common interest. You shouldn’t expect your faculty advisor to have exactly the same interests as you. Rather, the role of your advisor is to offer a general perspective on your academic plan and professional goals. Although we have a large and diverse faculty, there may be no single faculty member with exactly your interests. Your advisor may suggest other faculty who may also be helpful to you in answering some of your academic questions and with whom you might want to chat. If you feel you could benefit from additional academic or career advice or mentoring, it is up to you to connect and network with faculty. Occasionally, students or faculty may feel that the advising match is not optimal and a change in advisors is appropriate. If you ever find yourself in that situation, please contact the MPH Program Office to discuss, and if appropriate, we can help facilitate a change of advisor.

The faculty advisor can help answer academic questions, but sometimes your advisor may not know other sorts of questions that might come up.

You may have specific questions about academic rules and regulations, especially concerning the grading systems, pass/fail options, and add/drop policies. All students should consult the JHSPH Student Manual at: http://www.jhsp.edu/academics/degreeprograms/mph/current_students/student_manuals.html

Other non-academic issues may come up during your Program. If personal issues arise and you think you might benefit from some form of counseling, the Student Assistance Program is available. For more information, contact (410) 955-1220 or (410) 516-3800.
Website: http://www.jhu.edu/~hr1/fasap/sap.html

If there is a financial emergency, you might want to contact the Office of Financial Aid, directed by Greg Winkler, for guidance or suggestions at (410) 955-3004, finaid@jhsph.edu.

Finally, if an issue comes up and you just don’t know where to turn, please contact our MPH Program Office (mphprog@jhsph.edu, 410-955-1291, Room W1015, Wolfe Street building) and we can help triage it for you.
14. CURRICULUM FOR OPTIONAL MPH CONCENTRATIONS

The educational objectives, course of study, and capstone experience requirements are described for each concentration on the following pages. Course schedules are subject to change, so please periodically check the following website for the most current course details: http://commprojects.jhsph.edu/courses/

Specific questions concerning each concentration should be directed to the concentration faculty directors.

The 10 MPH concentrations for 2007-2008 are:

- Child & Adolescent Health
- Comparative Health Systems & Policies
- Epidemiologic & Biostatistical Methods for Public Health & Clinical Research
- Health Leadership & Management
- Humanitarian Assistance\Health & Human Rights
- Infectious Diseases
- Public Health Nutrition
- Public Health Preparedness
- Social & Behavioral Sciences in Public Health
- Women’s and Reproductive Health

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**MPH Concentration Area Key Dates:**

Concentration Area Orientations
July 5\textsuperscript{th}: 1:00-3:15pm
July 10\textsuperscript{th}: 1:00-4:00pm

**Monday, July 16, 2007:**
Concentration Election Form Due

**Wednesday, November 7, 2007:**
Deadline for changing from one concentration area to another.
(Note: Students may switch from a concentration to a customized course of study anytime during the academic year.)
14.1 MPH CONCENTRATION
CHILD & ADOLESCENT HEALTH

Educational Objectives:

The MPH concentration in Child & Adolescent Health focuses on understanding the health problems and health status of children and adolescents across the globe, the nature and scope of the multiple determinants of their health status, and the range of public health programs to address the health and well-being of children and their families, in developed and developing countries. The goals of the concentration are to provide students with an understanding in several critical areas including:

1) The underlying determinants of child and adolescent health status in developing and developed countries, including socio-economic, demographic, developmental, behavioral, cultural, political, environmental, and other determinants.
2) The content of specific health problems of children and adolescents, including nutritional issues, injury, infectious diseases and HIV, chronic and disabling conditions, adolescent health concerns, and others.
3) The design, development, implementation and evaluation of public health programs to improve the health and well-being of children, including immunization programs, child survival strategies, primary health care, health promotion and disease prevention efforts, including those that target HIV/AIDS, and injury prevention.

The minimum number of academic units needed to complete the concentration requirements over and above the MPH core requirements is 19 units.

Course of Study:

Students are required to complete the following three courses:
220.601 Introduction to International Health (4 units) – 1st term [Internet – 4th term]
380.604 Life Course Perspectives on Health (4 units)* – 1st term [Internet – 1st T.]
380.626 Seminar in Child Health (3 units) – 4th term

Students are also required to choose at least three of the following courses:
380.641 Prenatal & Infant Growth & Development (3 units) – 1st term (conflicts with Intro. to Int’l Health, 1st term)
380.624 Maternal and Child Health Legislation and Programs (4 units) – 2nd term
380.642 Child Health and Development (3 units) – 2nd term
380.623 Adolescent Health and Development (3 units) – 3rd term [Internet – 3rd term]
380.625 Attitudes, Programs, and Policies for Children with Special Health Care Needs (3 units) - 3rd term
223.663 Infectious Diseases and Child Survival (3 units) – 3rd term
222.655 Nutrition and Life Stages (3 units) – 3rd term
380.662 Issues in Perinatal Health Research (3 units) – 3rd term
221.640 Children in Crisis (1 unit) – 4th term
222.649 International Nutrition (3 units) – 4th term
223.680 Global Disease Control Programs & Policies (4 units) – 4th term
301.645 Health Advocacy (3 units) – 4th term
340.623 Epidemiologic & Policy Aspects of Selected Childhood Diseases (2 units) – 4th term

Offered alternate years; next offered 2008/09.
380.671 Adolescent Pregnancy – Causes, Consequences, Interventions (3 units) – 4th term
380.725 Social Ecology of Adolescent Health (3 units) – 4th term
380.762 HIV Infection in Women, Children and Adolescents (3 units) – 4th term

*Also fulfills MPH core requirement.
**Capstone Experience:**

The MPH capstone experience in Child & Adolescent Health involves the application of the skills and competencies acquired during the MPH course-work to the solution of public health-practice problems of children’s health. The capstone experience generally has both a written and oral-presentation component. Several options are available to complete this requirement.

Students are required to complete 2-5 units of capstone special studies under the direction of concentration-affiliated faculty. One option is to take the capstone special studies in coordination with the 4th term course, Seminar in Child Health (380.626). Another option is to design a capstone experience approved by the student’s advisor. In either case, students should discuss the capstone with their advisor before the beginning of the 3rd term so that any additional preparation or planning may be completed before the 4th term.

**Faculty Concentration Directors:**

Andrea Ruff, MD, Associate Professor, International Health
x5-2378; aruff@jhsph.edu

Anne Riley, PhD, BSN, Associate Professor, Population, Family & Reproductive Health
X5-1098; ariley@jhsph.edu
## Child & Adolescent Health
2007-2008

<table>
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<tr>
<th>Requirements</th>
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<td>1. 380.604 Life Course Perspectives on Health (4)* - 1st term [Internet-1st T.]</td>
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<td>2. 220.601 Introduction to International Health (4) – 1st term [Internet – 4th term]</td>
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<td>3. 380.626 Seminar in Child Health (3) – 4th term</td>
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<td><strong>Choose at least 3 of the following courses:</strong></td>
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<td>1. 380.641 Prenatal &amp; Infant Growth &amp; Development (3) – 1st term</td>
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<td>3. 380.642 Child Health &amp; Development (3) – 2nd term</td>
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<td>4. 380.623 Adolescent Health &amp; Development (3) – 3rd term [Internet – 3rd term]</td>
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<td>5. 380.625 Attitudes, Programs, &amp; Policies for Children with Special Health Care Needs (3) – 3rd term</td>
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<td>6. 223.663 Infectious Diseases and Child Survival – (3) 3rd term</td>
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<td>8. 380.662 Issues in Perinatal Research (3) – 3rd term</td>
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<td>9. 221.640 Children in Crisis (1) – 4th term</td>
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<td>10. 223.680 Global Disease Control Programs and Policies (4) – 4th term</td>
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<td>11. 301.645 Health Advocacy (3) – 4th term</td>
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<td><strong>Offered alternate years; next offered in 2008-09.</strong></td>
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<td>13. 222.649 International Nutrition (3) – 4th term</td>
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<td>14. 380.671 Adolescent Pregnancy – Causes, Consequences, Intervens. (3) – 4th T.</td>
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<td>15. 380.725 Social Ecology of Adolescent Health (3) – 4th term</td>
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<td>16. 380.762 HIV Infection in Women, Children &amp; Adolescents (3) – 4th term</td>
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<td><strong>Capstone Seminar in Child Health (380.626) &amp; at least 2 capstone special studies units</strong></td>
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<td><strong>Or individual project with advisor (at least 2 units)</strong></td>
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<td>At least 2 units capstone special studies</td>
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*Also fulfills MPH core requirement.
14.2 MPH CONCENTRATION
COMPARATIVE HEALTH SYSTEMS & POLICIES

Educational Objectives:

The MPH Concentration in Comparative Health Systems and Policies develops skills and knowledge related to analysis and decision-making for health systems’ organization, financing, and service delivery – in the United States and internationally. The curriculum focuses on health policy analysis and formulation; financing, organization, and oversight of health systems; and policies and programs for disease prevention, injury control, and other public health priorities.

This concentration area is aimed at developing skills, knowledge, and attributes for policy-makers, policy analysts, and senior managers of health systems. The concentration emphasizes planning and managing national and international programs, institution building, and related analysis. Through their coursework, students acquire a solid foundation in policy analysis, an understanding of key health policy issues from a comparative perspective – and substantive knowledge of health care systems and public policies and programs in the U.S. and in selected low, middle, and high-income countries.

The required curriculum provides students with a sound knowledge of the processes through which public policy decisions are made; training in basic quantitative and analytic methods; and the skills needed to use and critique data, research findings, and program evaluations in the development of health policy. The curriculum provides an overview of changes occurring in the U.S. and internationally in health sector policy and financing – comparing countries at different levels of income and with varying health system infrastructures.

Topics include: the role of government in the health sector; sources of revenue for the health sector; health insurance systems; provider organization and payment methods; access to health care; and the policy-making process for the health sector and for specific public health areas – for example, road traffic injuries and occupational health.

The minimum number of academic units needed to complete the concentration requirements over and above the MPH core requirements is 20 units.

Course of Study:

Students are required to complete the following courses:
300.711 Health Policy I: Social and Economic Determinants of Health (3 units) – 1st term
300.712 Health Policy II: Public Health Policy Formulation (3 units) – 2nd term
300.651 Introduction to the U.S. Healthcare System (4 units) – 2nd term [Internet – 4th term]
221.609 Comparative Health Systems (4 units) – 4th term
300.714 Health Policy IV: Health Policy Analysis & Synthesis (3 units) – 4th term
Capstone Special Studies (3 units) – 3rd or 4th terms (See “Capstone Experience” below)

Options (especially for students with an international focus):

Instead of taking:
300.651 Introduction to the U.S. Healthcare System

Students may take one of the following courses:
220.601 Introduction to International Health (4 units) – 1st term [Internet – 4th term]
380.756 Poverty, Economic Development & Health (4 units) – 3rd term
221.620 Using Summary Measures of Population Health to Improve Health Systems (4 units) – 4th term
223.680 Global Disease Control Programs and Policies (4 units) – 4th term
**Additional Recommended Courses (not required):**

300.600 Introduction to Health Policy (4 units) – [Internet only – 1st term]
313.640 Health Economics I (3 units) – 1st term
410.611 Health, Poverty and Public Policy in the U.S. (3 units) – 1st term
306.650 Public Health and the Law (3 units) – 2nd term
313.641 Health Economics II – Applications (3 units) – 2nd term
221.614 International Political Science for Public Health Practitioners (1 units) – 3rd term
300.652 Politics of Health Policy (4 units) – 3rd term
300.713 Health Policy III: Health Policy Research & Evaluation Methods (4 units) – 3rd term
308.602 Role of Government in Health Policy I (3 units) – 3rd term
309.620 Managed Care and Health Insurance (3 units) – 3rd term
380.761 STI Prevention: Using Epidemiology to Inform Policy & Programs (4 units)* – 3rd term [Internet – 4th term]
551.605 Case Studies in Management Decision-Making (3 units) – 3rd term
221.638 Health Systems Research & Evaluation in Developing Countries (4 units) – 4th term
308.603 Role of Government in Health Policy II (3 units) – 4th term

**Capstone Experience:**

MPH students in the Comparative Health Systems and Policies concentration will be required to develop a case study of a health systems policy problem, either in the U.S. or internationally. Students should develop the case study over the course of the academic year, in close coordination with a faculty advisor. These case studies will be based on in-depth research of the problem in question, including applicable data, and will present a series of options for addressing the problem. Students in the concentration area should sign up for three credits of capstone special studies with their capstone advisor, preferably in the 3rd or 4th terms, for the development of the capstone project. The capstone projects will be presented at the end of year MPH capstone symposium.

These case studies will be based on research of the issue in question, including applicable data, and will necessitate choices by decision-makers. The presentation will include leading class discussion through a systematic review of the case, including problem definition, stakeholder review, and consideration of options and their implications.

Possible topics, grouped by general area of policy interest, include:

- Identifying and addressing financial, geographic, and cultural barriers to access to health care and developing policies to address these barriers and to improve equity.
- Improving coordination (including information systems, contracting, and payment mechanisms) among the public sector, the private sector, and social security systems.
- Developing options for raising revenues for the health sector, and assessing the implications of these options.
- Expanding health insurance coverage – both public and private – including raising revenues, pooling revenues, contracting for services and payment options, and setting levels of co-payments.
- Changing the organization of the health system, possibly including changes in the public-private mix of provision and/or financing of health care.
- Use of information and incentives to effect changes in the behavior of health care providers and/or patients.
- Developing appropriate policies and regulations for public health priority programs – such as (for example) road traffic injuries, HIV/AIDS, and tobacco control.

**Faculty Concentration Directors:**

Lisa Dubay, PhD, Associate Professor, Health Policy & Management, x2-0985, ldubay@jhsph.edu
David Peters, MD, DrPH, MPH, Associate Professor, International Health, x2-5364, dpeters@jhsph.edu
Damian Walker, PhD, Assistant Professor, International Health, x5-3928, dgwalker@jhsph.edu
Hugh Waters, MS, PhD, Associate Professor, Health Policy and Management; x5-3928; hwaters@jhsph.edu
## Comparative Health Systems & Policies 2007-2008

### Requirements:

1. **300.711 Health Policy I: Social & Economic Determinants of Health (3) – 1st term**
2. **300.712 Health Policy II: Public Health Policy Formulation (3) – 2nd term**
3. **300.651 Introduction to U.S. Healthcare System (4) – 2nd term [Internet – 4th T.]**
4. **221.609 Comparative Health Systems (4) – 4th term**
5. **300.714 Health Policy IV: Health Policy Analysis & Synthesis (3) – 4th term**

Capstone Special Studies (3) – 3rd or 4th term

### Options (especially for students with an international focus):

Instead of **300.651 Introduction to the U.S. Healthcare System**

1. **220.601 Introduction to International Health (4) – 1st term [Internet – 4th term]**
2. **380.756 Poverty, Economic Development & Health (4) – 3rd term**
3. **221.620 Using Summary Measures of Population Health (4) – 4th term**
4. **223.680 Global Disease Control Programs & Policies (4) – 4th term**

### Additional Recommended Courses (Not required):

1. **300.600 Introduction to Health Policy (4) – Internet only – 1st term**
2. **313.640 Health Economics I (3 units) – 1st term**
3. **410.611 Health, Poverty & Public Policy in the U.S (3) – 1st term**
4. **306.650 Public Health & the Law (3) – 2nd term**
5. **313.641 Health Economics II – Applications (3 units) – 2nd term**
6. **221.614 International Political Science for PH Practitioners (1) – 3rd term**
7. **300.713 Health Policy III: Health Policy Res & Eval Methods (4) – 3rd term**
8. **308.602 Role of Government in Health Policy I (3) – 3rd term**
9. **309.620 Managed Care and Health Insurance (3) – 3rd term**
11. **221.638 Health Systems Research & Eval in Develop Countries (4) – 4th term**
12. **308.603 Role of Government in Health Policy II (3) – 4th term**

### Capstone special studies, 3 units.

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**Capstone Special Studies, 3 units.**

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**Prerequisite: 300.600**

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<tr>
<td>1. Internet</td>
<td>4. W 2:30-5:20pm</td>
<td>6. F 1:30-2:50pm</td>
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<tr>
<td>2. T &amp; Th 1:30-2:50pm</td>
<td>5. TBA</td>
<td>7. F 8:00-11:50am</td>
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<tr>
<td>9. TBA</td>
<td></td>
<td>14. W 1:30-4:20pm Prerequisite: 300.600 &amp; 308.602</td>
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</tr>
<tr>
<td>11. T &amp; Th 1:30-3:20pm</td>
<td>12. W 1:30-4:20pm Prerequisite: 551.601-602</td>
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</table>

**Prerequisite: 300.600 & 308.602**
14.3 MPH CONCENTRATION
EPIDEMIOLOGIC AND BIOSTATISTICAL METHODS FOR
PUBLIC HEALTH AND CLINICAL RESEARCH

Educational Objectives:

The MPH concentration in Epidemiologic and Biostatistical Methods for Public Health and Clinical Research is designed for students with quantitative backgrounds who are seeking to gain additional skills in epidemiologic study design and statistical data analysis. The goal of this concentration is to prepare students to participate in the design, conduct and analysis of research studies in public health and put concepts into practice. This concentration is best suited for students who have already worked in a particular substantive area and have identified specific research questions.

The objectives of this concentration are to provide the necessary didactic course work, group meetings and opportunities for hands-on experience that culminates in the specification of a hypothesis of interest, statistical analysis of an appropriate data set and a written manuscript that might be suitable for publication.

The competencies gained from this concentration include:
1) Articulating an appropriate question/hypothesis.
2) Identifying an appropriate study design and data set for answering the question.
3) Obtaining IRB approval.
4) Gaining familiarity with aspects of data management.
5) Identifying and applying appropriate statistical methods and correctly interpreting results.
6) Gaining familiarity with tracking and recording steps in the analysis of a data set.
7) Writing up the results of a data analysis for a professional publication.
8) Oral presentation of the results.

The minimum number of academic units needed to complete the concentration requirements over and above the MPH core requirements is 20 units.

Course of Study:

Students are required to complete a four-term sequence in both epidemiology and biostatistics.

Students choose either the biostatistics course sequence 140.621-4 or the biostatistics course sequence 140.651-4:

140.621 Statistical Methods in Public Health I (4 units)* – 1st term
140.622 Statistical Methods in Public Health II (4 units)* – 2nd term
140.623 Statistical Methods in Public Health III (4 units)* – 3rd term
140.624 Statistical Methods in Public Health IV (4 units) – 4th term
OR 140.651-652 Methods in Biostatistics I & II (4 units per term)* – 1st & 2nd terms
140.653-654 Methods in Biostatistics III & IV (4 units per term)* – 3rd & 4th terms

Students complete each of the four epidemiology courses below:

340.601 Principles of Epidemiology (5 units) – Summer term
340.751 Epidemiologic Methods I (5 units) – 1st term
340.752 Epidemiologic Methods II (5 units) – 2nd term
340.753 Epidemiologic Methods III (5 units) – 3rd term

Other Courses of Interest (Optional):
Several other courses are recommended depending upon the students’ interests and research needs in specific areas such as meta-analysis, health survey methods, clinical trials, study design and grant proposal development, survival analysis, data management, and other special topics.

330.603 Psychiatric Epidemiology (3 units) – 2nd term [Internet – 2nd term]
340.620 Principles of Clinical Epidemiology (2 units) - 2nd term
340.645 Introduction to Clinical Trials (3 units) – 2nd term [Internet – 1st term]
340.717 Health Survey Research Methods (6 units) – 2nd term
340.606 Meta-analysis (4 units) - 3rd term
140.641 Survival Analysis (3 units) -3rd term
340.607 Epidemiologic and Preventive Aspects of Cardiovascular Diseases (4 units) - 3rd term
340.616 Epidemiology of Aging (3 units) – 4th term
340.715 Problems in the Design of Epidemiologic Studies (6 units) - 4th term
223.672 Data Management Methods in Health Research Studies (5 units) - 4th term [Internet – Summer T.]
340.618 Occupational Epidemiology (4 units) - 4th term Offered alternate years; next offered 2007-08.
340.623 Epidemiologic and Policy Aspects of Selected Childhood Diseases (2 units) - 4th term
340.754 Methodologic Challenges in Epidemiologic Research (5 units) – 4th term

*Also fulfills MPH core requirement.

**Capstone Experience:**

The MPH capstone experience in Epidemiologic and Biostatistical Methods involves the application of skills and competencies acquired to problems in epidemiology and data analysis. Preparation for the capstone experience will start during the 1st term and be integrated throughout the year. A total of 5 units of capstone special studies (1 each in the 1st, 2nd and 3rd terms and 2 units in the 4th term) will be allotted to this activity under the direction of the student’s advisor or other concentration-affiliated faculty. There will be required small group seminars or sessions for informal discussion of issues relevant to public health research. The final product will be a written paper that might be suitable for publication based on a student’s research question of interest and corresponding data analysis. The student’s advisor will approve the written paper. In addition, each student will prepare and present the work in a short oral presentation at a special MPH symposium in May.

**Concentration Seminar:**

The 5 units of special studies are for attending the required small group seminars. These seminars will meet weekly or every other week during the academic year. Topics will include: getting started on a research project, how to identify data sets, how to obtain IRB approval, managing data, writing a scientific paper and oral presentation skills. Some of these seminars will also be used as research in progress meetings where students are expected to report on the progress to date of their capstone projects. These seminars typically begin in August; no more than two excused absences are allowed.

**Expectations:**

Students are expected:
1. During the first term, to identify a research question, hypotheses and data set to be used.
2. During the second term, to submit and obtain IRB approval.
3. To attend and participate in all small group seminars (no more than 2 excused absences).
4. To complete at least one short research in progress presentation.
5. To complete a formal presentation of the final report of their project using a format typical of a scientific meeting presentation.
6. To write a formal paper of publishable quality summarizing the data analyses and findings from their capstone project.

**Faculty Concentration Directors:**

Rosa M. Crum, MD, Associate Professor, Epidemiology, x4-2411; rcrum@jhsph.edu

Marie Diener-West, PhD, Professor, Biostatistics, x2-6894; mdiener@jhsph.edu
**Epidemiologic and Biostatistical Methods for Public Health and Clinical Research**  
**2007-2008**

### Requirement (Choose 1 Sequence):

1. 140.621 Statistical Methods in Public Health I (4)* – 1st term  
2. 140.622 Statistical Methods in Public Health II (4)* – 2nd term  
3. 140.623 Statistical Methods in Public Health III (4)* – 3rd term  
4. 140.624 Statistical Methods in Public Health IV (4) – 4th term  

Or

1. 140.651 Methods in Biostatistics I (4)* – 1st term  
2. 140.652 Methods in Biostatistics II (4)* – 2nd term  
3. 140.653 Methods in Biostatistics III (4)* – 3rd term  
4. 140.654 Methods in Biostatistics IV (4)* – 4th term  

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<thead>
<tr>
<th>Requirement</th>
<th>1st Term</th>
<th>2nd Term</th>
<th>3rd Term</th>
<th>4th Term</th>
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</thead>
<tbody>
<tr>
<td>1. 140.621 Statistical Methods in Public Health I (4)* – 1st term</td>
<td>T &amp; Th 10:30am-11:50am (&amp; one 2-hour afternoon lab per week)</td>
<td>T &amp; Th 10:30am-11:50am (&amp; one 2-hour afternoon lab per week)</td>
<td>T &amp; Th 10:30am-11:50am (&amp; one 2-hour lab per week)</td>
<td>T &amp; Th 10:30am-11:50am (&amp; one 2-hour lab per week)</td>
</tr>
<tr>
<td>2. 140.651 Methods in Biostatistics I (4)* – 1st term</td>
<td>T &amp; Th 10:30am-11:50am (Lab T 1:30-2:20 &amp; W 3:30-5:00pm)</td>
<td>T &amp; Th 10:30am-11:50am (Lab T 1:30-2:20 &amp; W 3:30-5:00pm)</td>
<td>T &amp; Th 10:30am-11:50am (Lab T 12:15-1:15pm)</td>
<td>T &amp; Th 10:30am-11:50am (Lab T 12:15-1:15pm)</td>
</tr>
</tbody>
</table>

### Requirement:

1. 340.601 Principles of Epidemiology (5)* – Summer term  
2. 340.751 Epidemiologic Methods I (5) – 1st term  
3. 340.752 Epidemiologic Methods II (5) – 2nd term  
4. 340.753 Epidemiologic Methods III (5) – 3rd term  

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<tr>
<th>Requirement</th>
<th>1st Term</th>
<th>2nd Term</th>
<th>3rd Term</th>
<th>4th Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 340.601 Principles of Epidemiology (5)* – Summer term</td>
<td>M, W, F 8:30-11:50am (Including lab)</td>
<td>M, W, F 8:30-11:50am (Including lab)</td>
<td>M &amp; W 8:30-11:50am (Including lab)</td>
<td>M &amp; W 3:30-5:00pm</td>
</tr>
<tr>
<td>2. 340.751 Epidemiologic Methods I (5) – 1st term</td>
<td>Prerequisites: 140.621 or 140.651 prior or concurrent</td>
<td>Prerequisites: 340.751; 140.621 or 140.651; 140.622 or 140.652 prior or concurrent</td>
<td>Prerequisites: 340.751 &amp; 752; 140.621 and 622 or 140.651 or 652; 140.623 or 140.653 prior or concurrent</td>
<td>Prerequisites: 340.601 &amp; 140.621 recommended</td>
</tr>
</tbody>
</table>

### Other Courses of Interest (Optional):

1. 330.603 Psychiatric Epidemiology (3) – 2nd term [Internet – 2nd term]  
2. 340.620 Principles of Clinical Research (2) – 2nd term  
3. 340.645 Introduction to Clinical Trials (3) – 2nd term [Internet-1st term]  
4. 340.717 Health Survey Research Methods (6) – 2nd term  
5. 340.606 Meta-Analysis (4) – 3rd term  
6. 140.641 Survival Analysis (3) – 3rd term  
8. 340.616 Epidemiology of Aging (3) – 4th term  
10. 223.672 Data Mgmt Methods in Hlth Res Studies (5) – 4th T. [Internet-Summer]  
11. 340.623 Epi & Policy Aspects Select Childhood Diseases (2) – 4th term  
12. 340.618 Occupational Epidemiology (4) – 4th term  
13. 340.754 Methodologic Challenges in Epidemiologic Research (5) – 4th term  

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<thead>
<tr>
<th>Other Courses of Interest (Optional)</th>
<th>1st Term</th>
<th>2nd Term</th>
<th>3rd Term</th>
<th>4th Term</th>
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</thead>
<tbody>
<tr>
<td>1. 330.603 Psychiatric Epidemiology (3) – 2nd term [Internet – 2nd term]</td>
<td>M &amp; W 1:30-3:20pm</td>
<td>M &amp; W 3:00-4:30pm</td>
<td>M &amp; F 1:30-2:20pm; Prerequisite: 340.601 or 340.751</td>
<td>M &amp; F 3:30-5:30pm</td>
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<tr>
<td>2. 340.620 Principles of Clinical Research (2) – 2nd term</td>
<td>340.601</td>
<td>340.601 or 140.621-622 or 140.602</td>
<td>Prerequisites: 340.601 &amp; 140.621-622 or 140.602</td>
<td>Prerequisites: 340.601-3</td>
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<tr>
<td>9. 340.616 Epidemiology of Aging (3) – 4th term</td>
<td>340.751</td>
<td>340.601</td>
<td>Prerequisites: 340.601 &amp; 140.621-622 or 140.602</td>
<td>Prerequisites: 340.601 &amp; 140.621 or 140.601</td>
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<tr>
<td>11. 340.623 Epi &amp; Policy Aspects Select Childhood Diseases (2) – 4th term</td>
<td>Prerequisites: 340.601 &amp; 140.621-622 or 140.602</td>
<td>Prerequisites: 340.601 &amp; 140.621 or 140.601</td>
<td>Prerequisites: 340.601 &amp; 140.621 or 140.601</td>
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<tr>
<td>12. 340.618 Occupational Epidemiology (4) – 4th term</td>
<td>Prerequisites: 340.601 &amp; 140.621 or 140.601</td>
<td>Prerequisites: 340.601 &amp; 140.621 or 140.601</td>
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<tr>
<td>13. 340.754 Methodologic Challenges in Epidemiologic Research (5) – 4th term</td>
<td>Prerequisites: 340.601 &amp; 140.621 or 140.601</td>
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### Capstone (5 Units of Capstone Special Studies)

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<tr>
<th>Capstone (5 Units of Capstone Special Studies)</th>
<th>1st Term</th>
<th>2nd Term</th>
<th>3rd Term</th>
<th>4th Term</th>
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<td>1 Unit</td>
<td>1 Unit</td>
<td>1 Unit</td>
<td>2 Units</td>
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*Also fulfills MPH core requirement*
14.4 MPH CONCENTRATION
HEALTH LEADERSHIP AND MANAGEMENT

Educational Objectives:

The MPH concentration in Health Leadership & Management provides students with an understanding of the issues and challenges of leading and managing organizations involved in the health sector. The concentration is aimed at practitioners whose responsibilities require them to have leadership skills and an understanding of management, but who neither require nor want a full management degree.

Students will gain a fundamental understanding of leading and managing health organizations in a range of settings in the United States and other countries (especially low and middle income countries), covering the following topics:

1) Understanding the healthcare environment
2) Leadership development
3) Organizational design
4) Strategic management and planning
5) Governance
6) Organizational stakeholders
7) Human resources
8) Managing conflict
9) Quantitative tools for management
10) Budgeting and financial management
11) Approaches to process improvement
12) Measuring and monitoring organizational performance
13) Change management

Through a variety of teaching methods (lectures, laboratories, group work, seminars, case methods, individual assignments) and application of leadership and management frameworks, students will be able to demonstrate the skills and attributes to function effectively in health sector organizations. These include: performing a stakeholder analysis and developing a detailed understanding of stakeholder expectations within an organization; analyzing problems using quantitative tools to support management and decision-making; planning strategically and setting management priorities; developing a budget based on information regarding business or service volume, staffing levels, salary rates, and supply usage and costs; team building, facilitating work team performance, conflict management and negotiation; acting ethically in an organization; and applying performance improvement concepts and tools in order to design or redesign a specific process and using indicators to measure and monitor organizational performance.

The minimum number of units needed to complete the concentration requirements over and above the MPH core requirements is 18 units.
Course of Study:

Students are required to complete the following courses:

- 551.601 Managing Health Services Organizations (4 units) – 1st term* [Internet – 3rd term]
- 551.602 Approaches to Managing Health Service Organizations (2 units) – 1st term
- 551.603 Fundamentals of Budgeting & Financial Mng’t (3 units) – 2nd term* [Internet - 3rd term]
- 551.610 Foundations of Leadership (3 units) – 2nd term

Students must choose at least one of the following courses:

- 551.605 Case Studies in Management Decision-making (3 units) – 3rd term
- 312.615 Organizational Behavior & Management (3 units) – 4th term
- 312.625 Case Studies in Health Care Management (3 units) – 4th term

Students must choose at least one of the following courses:

- 221.722 Quality Assurance Mng’t Methods for Devel. Countries (4 units)* – 1st T. [Internet - 1st term]
- 551.604 Quantitative Tools for Managers (3 units) – 2nd term
- 311.615 Quality of Medical Care (3 units) – 3rd term
- 551.607 Pharmaceuticals Management for Under-served Populations (3 units)* – 3rd term
- 551.608 Managing Non-governmental Organizations in the Health Sector (3 units)* – 3rd term

Choose a minimum of 2 units from any course above not used to meet a requirement or one of the following:

- 312.617 Fundamentals of Fin. Accounting (3 units) – 1st term
- 313.640-1 Introduction to Health Economics I&II (3 units per term) – 1st & 2nd terms
- 221.612 Confronting the Burden of Injuries (3 units) – 2nd term [Internet – 2nd term]
- 221.635 Case Studies in Primary Health Care (4 units) – 3rd term
- 312.623 Financial Management in Health Care I (3 units) – 3rd term
- 313.630 Concepts & Applications in Economic Evaluation I (3 units) – 3rd term
- 221.609 Comparative Health Systems (4 units) – 4th term
- 221.620 Using Summary Measures of Population Health (4 units) – 4th term
- 221.661 Project Development for PHC in Developing Countries (4 units) – 4th term
- 223.664 Design & Conduct of Community Trials (4 units) – 4th term
- 312.615 Organizational Behavior & Management (3 units) – 4th term
- 312.621 Strategic Planning and Operations (3 units) – 4th term
- 312.624 Financial Management in Health Care II (3 units) – 4th term
- 312.664 Interest-based Negotiation: Preparation, Analysis and Practice (2 units) – 4th term
- 312.665 Conflict Management Skills Training (2 units) – 4th term
- 312.666 Creating Agreement and Managing Conflict in a Health Care Setting (1 unit) – 4th term
- 313.631 Concepts & Applications in Economic Evaluation II (3 units) – 4th term
- 312.633 Health Management Information Systems (3 units) – Internet only-4th term

*Also fulfills MPH core requirement.

Capstone Experience:

The MPH capstone experience in Health Leadership & Management provides students the opportunity to apply the competencies they acquired to management problems in health organizations. A range of options are available. Students will sign up for a minimum of 2 units of special studies in 4th term under the direction of their advisor or concentration-affiliated faculty. The projects will be presented and critiqued in the course 551.605. The possible projects include (but are not limited to):

1) Supplementing one of the case studies in the 551.605 course with a detailed analysis of the health care issues, management principles, and organizations involved (2-3 units)
2) Writing a full management case study that can be used in a case methods course (3-6 units)
3) Writing a comprehensive evaluation of a health organization, program, or health reform, in the form of a submission to a journal (2-4 units)
4) Preparing a research proposal to implement or evaluate a management reform in healthcare (3-4 units)

Faculty Concentration Directors:

Ann-Michele Gundlach, EdD, Assistant Professor, Health Policy & Management, x2-0460, agundlach@jhsph.edu
Earl Wall, MS, Research Associate, International Health, x2-2626, ewall@jhsph.edu
# Health Leadership & Management

## 2007-2008

**Requirements:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term</th>
<th>Notes</th>
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<tbody>
<tr>
<td>551.601</td>
<td>Managing Health Services Organizations (4) – 1st term</td>
<td>1st Term</td>
<td>Internet-3rd T.</td>
</tr>
<tr>
<td>551.602</td>
<td>Approaches to Managing Health Service Organizations (2) – 1st term</td>
<td>1st Term</td>
<td></td>
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<tr>
<td>551.603</td>
<td>Funds of Budgeting &amp; Financial Mgmt (3)* – 2nd term</td>
<td>2nd Term</td>
<td>Internet-3rd T.</td>
</tr>
<tr>
<td>551.610</td>
<td>Foundations of Leadership (3)</td>
<td>2nd Term</td>
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<tr>
<td>551.605</td>
<td>Case Studies in Management Decision-making (3) – 3rd term</td>
<td>3rd Term</td>
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<td>OR</td>
<td>312.615 Organizational Behavior and Management (3) – 4th term</td>
<td>4th Term</td>
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<tr>
<td>OR</td>
<td>312.617 Fundamentals of Fin. Accounting (3 units) – 1st term</td>
<td>2nd Term</td>
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<tr>
<td>OR</td>
<td>221.612 Confronting the Burden of Injuries (3 units) – 2nd term</td>
<td>3rd Term</td>
<td>[Internet-2nd T.]</td>
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<td>OR</td>
<td>313.640-1 Intro. to Health Economics I&amp;II (3 units/term) – 1st &amp; 2nd terms</td>
<td>4th Term</td>
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<td>OR</td>
<td>221.623 Financial Management in Health Care I (3 units) – 3rd term</td>
<td>5th Term</td>
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<tr>
<td>OR</td>
<td>221.664 Design &amp; Conduct of Community Trials (4 units) – 4th term</td>
<td>6th Term</td>
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<td>OR</td>
<td>312.664 Interest-based Negotiation: Prep, Analysis &amp; Pract (2 units) – 4th T.</td>
<td>7th Term</td>
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<td>OR</td>
<td>312.665 Conflict Management Skills Training (2 units) – 4th term</td>
<td>8th Term</td>
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<td>OR</td>
<td>312.666 Creat. Agree. &amp; Mang Confl in a Hlth Care Setting (1 unit) – 4th term</td>
<td>9th Term</td>
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<tr>
<td>OR</td>
<td>221.620 Using Summary Measures of Population Health (4 units) – 4th term</td>
<td>10th Term</td>
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<td>OR</td>
<td>312.615 Organizational Behavior and Management (3 units) – 4th term</td>
<td>11th Term</td>
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<td>OR</td>
<td>312.621 Strategic Planning and Operations (3 units) – 4th term</td>
<td>12th Term</td>
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<td>OR</td>
<td>312.624 Financial Management in Health Care II (3 units) – 4th term</td>
<td>13th Term</td>
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<tr>
<td>OR</td>
<td>313.631 Concepts &amp; Applications in Economic Evaluation II (3 units) – 4th term</td>
<td>14th Term</td>
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<tr>
<td>OR</td>
<td>312.633 Health Management Info. Systems (3 units) – Internet only–4th term</td>
<td>16th Term</td>
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</tbody>
</table>

Choose a minimum of 2 units from the following courses or from courses listed above not used as a requirement:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Term</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>551.604</td>
<td>Quantitative Tools for Managers (3)</td>
<td>2nd Term</td>
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<tr>
<td>OR</td>
<td>312.621 Strategic Planning and Operations (3 units) – 4th term</td>
<td>3rd Term</td>
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<tr>
<td>OR</td>
<td>312.608 Mng. Non-governmental Orgs. in the Health Sector (3)* 3rd T.</td>
<td>4th Term</td>
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<td>OR</td>
<td>312.607 Pharmaceuticals Mng’t for Under-served Populations (3) 3rd T.</td>
<td>5th Term</td>
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</table>

**Capstone (2-6 units)**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Term</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR</td>
<td>312.617 Fundamentals of Fin. Accounting (3 units) – 1st term</td>
<td>2nd Term</td>
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</tr>
<tr>
<td>OR</td>
<td>221.612 Confronting the Burden of Injuries (3 units) – 2nd term</td>
<td>3rd Term</td>
<td>[Internet-2nd T.]</td>
</tr>
<tr>
<td>OR</td>
<td>313.640-1 Intro. to Health Economics I&amp;II (3 units/term) – 1st &amp; 2nd terms</td>
<td>4th Term</td>
<td></td>
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<tr>
<td>OR</td>
<td>221.623 Financial Management in Health Care I (3 units) – 3rd term</td>
<td>5th Term</td>
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<tr>
<td>OR</td>
<td>221.664 Design &amp; Conduct of Community Trials (4 units) – 4th term</td>
<td>6th Term</td>
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<tr>
<td>OR</td>
<td>312.664 Interest-based Negotiation: Prep, Analysis &amp; Pract (2 units) – 4th T.</td>
<td>7th Term</td>
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<tr>
<td>OR</td>
<td>312.665 Conflict Management Skills Training (2 units) – 4th term</td>
<td>8th Term</td>
<td></td>
</tr>
<tr>
<td>OR</td>
<td>312.666 Creat. Agree. &amp; Mang Confl in a Hlth Care Setting (1 unit) – 4th term</td>
<td>9th Term</td>
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<tr>
<td>OR</td>
<td>221.620 Using Summary Measures of Population Health (4 units) – 4th term</td>
<td>10th Term</td>
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<tr>
<td>OR</td>
<td>312.615 Organizational Behavior and Management (3 units) – 4th term</td>
<td>11th Term</td>
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<tr>
<td>OR</td>
<td>312.621 Strategic Planning and Operations (3 units) – 4th term</td>
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<td>OR</td>
<td>312.624 Financial Management in Health Care II (3 units) – 4th term</td>
<td>13th Term</td>
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<td>OR</td>
<td>313.631 Concepts &amp; Applications in Economic Evaluation II (3 units) – 4th term</td>
<td>14th Term</td>
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<td>OR</td>
<td>312.633 Health Management Info. Systems (3 units) – Internet only–4th term</td>
<td>16th Term</td>
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</tbody>
</table>

2-6 units capstone special studies

*Also fulfills MPH core requirement*
14.5 MPH CONCENTRATION
HUMANITARIAN ASSISTANCE/HEALTH AND HUMAN RIGHTS

Educational Objectives:

The MPH concentration in Humanitarian Assistance/Health and Human Rights focuses on protection, assistance, and advocacy for vulnerable populations worldwide. These include refugees, internally displaced persons, trafficked women and children and other populations marginalized by age, ethnicity, gender, sexual orientation, class, or religious belief. The coursework will help students understand why populations become vulnerable and how to address the health needs of these populations. Advocacy and protection of rights for populations and individuals will be stressed. Students will have the opportunity to select a focus in one of two tracks: Humanitarian Assistance (HA) or Health and Human Rights (HHR).

In the HA track, emphasis will be on gaining expertise in methods to assess needs and provide assistance to displaced populations and other vulnerable groups. A variety of methods will be used to teach students basic skills including:

1) Identifying, protecting, and advocating for vulnerable groups
2) Public health care for refugees and displaced persons
3) Measuring health and demographic indicators in humanitarian emergencies
4) Natural disaster preparedness, management, and mitigation
5) Planning food, water, and sanitation programs for displaced populations
6) Implementing and monitoring assistance programs

In the HHR track, emphasis will be on learning the history of the human rights movement post WWII, becoming familiar with the major human rights documents and international treaties. Seminars and course discussion will be used to teach students basic skills including:

1) Basic human rights principles
2) Documenting human rights violations and abuses
3) Human rights laws, conventions, declarations and agreements
4) Human rights impact assessment of public health policies and interventions
5) Understanding the right to health in addressing the needs of vulnerable groups

The minimum number of academic units needed to complete the concentration requirements over and above the MPH core requirements is 20 units.

Course of Study:

Students are required to complete the following 4 courses:
221.613 Introduction to Humanitarian Emergencies (2 units) – 1st term
301.865/866 Seminar in Health and Human Rights I & II (2 units per term) – 1st & 2nd terms
221.639 Refugee Health Care (3 units) – 2nd term [Internet – 1st term]
551.856 Research Methods in Humanitarian Assistance/Health & Human Rights (2 units) – 3rd term

In addition, HA and HHR concentrators must elect at least 7 units from the following courses:
221.627 Issues in Maternal Mortality Reduction in Developing Countries (4 units) – 2nd term [Internet – 2nd term]
221.629 Water and Sanitation Needs in Complex Humanitarian Emergencies (2 units) – 2nd term
306.650 Public Health and the Law (3 units) – 2nd term
221.614 International Political Science for Public Health Practitioners (1 unit) – 3rd term
221.633 Public Health Issues in Disasters (2 units) – 3rd term
221.634 Stress Management for Relief Workers (1 unit) - 3rd term
300.652 Politics of Health Policy (4 units) – 3rd term
306.665 Research Ethics and Integrity: U.S. & International Issues (3 units) – 3rd term
551.608 Managing Non-Governmental Organizations in the Health Sector (3 units)* – 3rd term
221.611 Food, Nutrition and Livelihood in Humanitarian Emergencies (2 units) – 4th term
221.661 Project Development for Primary Health Care in Developing Countries (4 units) – 4th term
221.640 Children in Crisis (1 unit) – 4th term
221.641 Measurement Methods in Humanitarian Emergencies (2 units) – 4th term
301.645 Health Advocacy (3 units) – 4th term
340.639 Assessing Epidemiologic Impact of Human Rights Violations (2 units) – 4th term

*Also fulfills MPH core requirement.

Students without international experience are advised to take the course 220.601 Introduction to International Health (4 units), 1st term [Internet – 4th term].

**Capstone Experience:**

The MPH capstone experience in Humanitarian Assistance/Health and Human Rights is an opportunity for students to apply the skills and competencies acquired in the program. This required 2 unit activity is scheduled for the 4th term. Students will work individually or in small groups to develop specific projects or concepts. This will help integrate humanitarian assistance and human rights issues with various public health skills and competencies gained through the year. Faculty will provide guidance and assistance to students who will present their final work to the concentration. Capstone Experience in HA/HHR (2 units) – 4th term.

**Faculty Concentration Directors:**

Robert S. Lawrence, MD, Professor of Environmental Health Sciences and Health Policy & Management, x4-4590; rlawrenc@jhsph.edu

W. Courtland Robinson, PhD, Assistant Professor, International Health X5-3892; crobinso@jhsph.edu
# Humanitarian Assistance/Health and Human Rights
## 2007-2008

### Requirements for all students in the concentration:

1. 221.613 Intro to Humanitarian Emergencies (2) – 1st term
2. 301.865/866 Seminar in Hlth & Human Rights I&II (2 per term) 1st & 2nd terms
3. 221.639 Refugee Health Care (3) – 2nd term [Internet – 1st term]
4. 551.856 Research Methods in Health & Human Rights (2 units) – 3rd term

Students are required to complete at least 7 units from the list below:

1. 220.601 Introduction to International Health (4) – 1st term [Internet – 4th term] [Recommended for students without international experience.]
2. 221.627 Issues in Maternal Mortality Reduction in Developing Countries (4) – 2nd term [Internet – 2nd term]
3. 221.629 Water & Sanitation Needs in Complex Human Emergencies (2) – 2nd term
4. 306.650 Public Health & The Law (3) – 2nd term
5. 221.614 International Political Science for PH Practitioners (1) – 3rd term
6. 221.633 Public Health Issues in Disasters (2) – 3rd term
7. 221.634 Stress Management for Relief Workers (1) – 3rd term
8. 300.652 Politics of Health Policy (4) – 3rd term
9. 551.608 Managing Non-Gov’t Orgs. in the Health Sector (3)* – 3rd term
11. 221.611 Food/Nutrition & Livelihood in Human Emergencies (2) – 4th term
12. 221.661 Project Development for Primary Health Care Developing Countries (4) – 4th term
13. 221.640 Children in Crisis (1) – 4th term
14. 221.641 Measurement Methods in Humanitarian Emergencies (2) – 4th term
15. 301.645 Health Advocacy (3) – 4th term

### Capstone:
(at least 2 units of capstone special studies)

Capstone Experience in Hlth, Human Rights & Vul. Pops. (2) – 4th term

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*Also fulfills MPH core requirement*
14.6 MPH CONCENTRATION
INFECTIOUS DISEASES

Educational Objectives:

The MPH concentration in Infectious Diseases provides students with competencies in multiple disciplines including epidemiology, immunology, microbiology, parasitology and vector-borne diseases to address critical problems in the control and prevention of infectious diseases. Students who complete the concentration will gain special expertise in the pathogenesis, epidemiology and control of infectious diseases appropriate for careers within state health departments, federal agencies conducting research in the pathogenesis, epidemiology and control of infectious diseases or the pharmaceutical industry. Students will be exposed to the fundamental concepts underlying the epidemiology and control of a number of infectious diseases affecting global health.

The minimum number of academic units needed to complete the concentration requirements over and above the MPH core requirements is 17 units.

Course of Study:

Students are required to take 20 unit hours from the list of courses below with a minimum of 3 units in each of the following five areas: Epidemiology, Microbiology, Parasitology and Tropical Diseases, Prevention & Control of Infectious Diseases, and Immunology. Courses that are listed in multiple areas, can only be used to satisfy one area requirement.

Epidemiology:
340.608: Observational Epidemiology (4 units) - 2nd term [Internet – 3rd term]
340.627: Epidemiology of Infectious Diseases (4 units) - 2nd term [Internet – 2nd term]
380.761: STI Prevention: Using Epidemiology to Inform Policy & Program (4 units)* - 3rd term [Internet – 4th T.]
340.651: Emerging Infections (2 units) - 4th term
340.653: Epidemiologic Inferences in Outbreak Investigations (3 units) - 4th term

Microbiology:
120.602: Introduction to Molecular Biology (4 units) - 1st term
260.623: Fundamentals of Virology (4 units) - 1st term
550.630: Public Health Biology (3 units)* - 1st term [Internet – 4th term]
260.627: Pathogenesis of Bacterial Infections (4 units) - 2nd term
340.654: Epi & Natural History/Human Viral Infections (6 units)* - 3rd term [Internet–1st term]
260.624: Advanced Virology (4 units) - 3rd term. Offered every other year; next offered in 2008-2009
223.689: Biological Basis of Vaccine Development (3 units)* - 4th term
260.622: Principles of Bacterial Infection (3 units) - 4th term. Offered every third year; next offered in 2009-10.
Prevention & Control of Infectious Diseases:
550.630: Public Health Biology (3 units)* - 1st term [Internet – 4th term]
223.662: Vaccine Development and Application (3 units) - 2nd term
260.652: Principles of Public Health Ecology (4 units)* - 2nd term
223.663: Infectious Diseases and Child Survival (3 units) – 3rd term
223.687: Vaccine Policy Issues (3 units) - 3rd term
380.761: STI Prevention: Using Epidemiology to Inform Policy & Program (4 units)* - 3rd term [Internet – 4th T.]
340.612: Epidemiologic Basis for Tuberculosis Control (2 units)* - 3rd term [Internet – 4th term]
223.680: Global Disease Control Programs & Policy (4 units) – 4th term
223.689: Biologic Basis of Vaccine Development (3 units)* - 4th term

Parasitology/Tropical Diseases:
260.635: Biology of Parasitism (6 units)* - 3rd term
260.650: Vector Biology and Vector-borne Diseases (3 units) - 3rd term
223.682: Clinical Aspects of Tropical Diseases (3 units) – 4th term
260.656: Malariology (4 units)* - 4th term

Immunology:
For students with minimal or no prior background in immunology.
223.681: Immunology Infection and Disease – 2nd term (Tentative, contact Prof. Alan Scott for more information)

For students with some background in immunology.
260.611: Principles of Immunology I (4 units) – 1st term
260.712: Clinical Immunology (3 units) - 4th term

*Also fulfills MPH core requirement.

Capstone Experience:

The MPH capstone experience in Infectious Diseases is an opportunity for students to apply what they have learned to an infectious disease public health problem. Students complete a minimum of 1 unit of capstone special studies per term for the 3rd and 4th terms under the direction of their advisor or a concentration-affiliated faculty mentor. Students will prepare a paper on a specific infectious disease reviewing current key knowledge in the pathogenesis or control of the disease and focus on identifying at least 2 critical areas in need of additional research or public health solutions. Each paper topic must be approved by the students’ advisor based upon a brief outline. Each student will present the working oral presentation in a special MPH symposium in May or an alternative venue approved by the concentration faculty.

Faculty Concentration Directors:

Clive Shiff, PhD, Associate Professor, Molecular Microbiology & Immunology
x5-1263; cshiff@jhsph.edu

Ken Nelson, MD, Professor, Epidemiology
x5-1296; kenelson@jhsph.edu

Neal Halsey, MD, Professor, International Health
x5-6964; nhalsey@jhsph.edu
## Infectious Diseases 2007-2008

### Epidemiology: Complete at least 3 units from below:

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<th>1st Term</th>
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<th>4th Term</th>
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<tbody>
<tr>
<td>1. M, W &amp; F 9:00-10:20am (including labs), Prerequisites: 340.601 OR 550.691-692 OR 140.612</td>
<td>3. T &amp; Th 1:30-3:20pm Prerequisite: 550.630</td>
<td>4. W 3:30-4:50pm</td>
<td>5. Th 8:30-11:50am (including labs)</td>
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<tr>
<td>4. Emerging Infections (2) – 4th term</td>
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<td>5. Epidemiologic Inference in Outbreak Investigations (3) – 4th term</td>
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**M, W & F 9:00-10:20am (including labs), Prerequisites: 340.601 OR 550.691-692 OR 140.612**

**2. M W & F 3:30-4:50pm**

**3. T & Th 1:30-3:20pm**

**3rd Term**

### Immunology:

1. Principles of Immunology I (4) – 1st term
2. Clinical Immunology (3) - 4th term OR Immunology Infection and Disease – 2nd term
3. xxx.xxx: Immunology Infection and Disease – 2nd term

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<th>1st Term</th>
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<td>1. T &amp; Th 8:30-10:20am</td>
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<tr>
<td>2. Principles of Immunology I (4) – 1st term</td>
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<td>3. Clinical Immunology (3) - 4th term OR Immunology Infection and Disease – 2nd term</td>
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<tr>
<td>4. Immunology Infection and Disease – 2nd term</td>
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**1. T & Th 8:30-10:20am**

**TBA**

**2. Principles of Immunology I (4) – 1st term**

**3. Clinical Immunology (3) - 4th term OR Immunology Infection and Disease – 2nd term**

**4. Immunology Infection and Disease – 2nd term**

### Microbiology: Complete at least 3 units from below:

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<tr>
<td>3. Public Health Biology (3)* – 1st term [Internet – 4th term]</td>
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<td>4. Pathogenesis of Bacterial Infections (4) – 2nd term</td>
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<tr>
<td>5. Advanced Virology (4) – 3rd term</td>
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<td>Offered every other year; next offered in 2008-09</td>
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<tr>
<td>7. Biologic Basis of Vaccine Development (3)* – 4th term</td>
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<td>8. Principles of Bacterial Infection (3) – 4th term</td>
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<td>Offered every third year; next offered in 2009-10</td>
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**1. M & W 1:30-2:50pm**

**TBA**

**2. Introduction to Molecular Biology (4) – 1st term**

**3. Public Health Biology (3)* – 1st term [Internet – 4th term]**

### Parasitology: Complete at least 3 units from below:

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<tr>
<td>1. M W &amp; F 9:00-11:50am</td>
<td>2. T &amp; Th 8:30-9:50am</td>
<td>3. T &amp; Th 1:30-2:50pm</td>
<td>4. T &amp; Th 3:30-5:20pm</td>
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<tr>
<td>2. Biology of Parasitism (6)* – 3rd term</td>
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<tr>
<td>3. Vector Biology &amp; Vector-Borne Diseases (3) – 3rd term</td>
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<td>4. Clinical Aspects Tropical Diseases (3) – 4th term</td>
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<td>5. Malaria (4)* – 4th term</td>
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**1. M W & F 9:00-11:50am**

**2. Biology of Parasitism (6)* – 3rd term**

**3. Vector Biology & Vector-Borne Diseases (3) – 3rd term**

**4. Clinical Aspects Tropical Diseases (3) – 4th term**

**5. Malaria (4)* – 4th term**

### Prevention & Control: Complete at least 3 units from below:

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<th>4th Term</th>
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<td>1. M &amp; W 1:30-2:50pm</td>
<td>2. T &amp; Th 5:00-6:30pm</td>
<td>4. M &amp; W 1:30-2:50pm</td>
<td>5. T &amp; Th 5:00-6:30pm Prerequisite: 223.622 recommended</td>
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<tr>
<td>5. Infectious Diseases and Child Survival (3) – 3rd term</td>
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<td>6. Vaccine Policy Issues (3) – 3rd term</td>
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<td>7. Epi. Basis for Tuberculosis Control (2)* – 3rd term [Internet–4th term]</td>
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<td>8. Global Disease Control Programs &amp; Policy (4) – 4th term</td>
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<td>9. Biologic Basis of Vaccine Development (3) – 4th term</td>
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**1. M & W 1:30-2:50pm**

**2. T & Th 5:00-6:30pm**

**3. T & Th 1:30-3:20pm**

**4. M & W 1:30-2:50pm**

**5. T & Th 5:00-6:30pm Prerequisite: 223.622 recommended**

**6. T & Th 1:30-3:20pm Prerequisite: 550.630**

**7. T & Th 1:30-3:20pm**

**8. M & W 1:30-3:20pm Prerequisite: 340.601**

**9. M & W 3:30-4:50pm Prerequisites: 260.611-12**

### Capstone: (at least 2 units)

- at least 1 unit of Capstone special studies
- at least 1 unit of Capstone special studies

*Also fulfills MPH core requirement*
14.7 MPH CONCENTRATION
PUBLIC HEALTH NUTRITION

Educational Objectives:

The MPH concentration in Public Health Nutrition provides students with an opportunity to focus their study on nutrition and integrate this information with other coursework in order to develop the skills to address nutrition problems in the United States and around the world.

Students choosing this concentration will gain an understanding of:
1. The major nutritional problems of public health importance;
2. The methods for assessing nutritional status and the use and interpretation of nutritional indicators;
3. The methods for establishing the causal role of nutritional factors on health and disease status;
4. The design and implementation of nutrition programs to improve the nutrition and health of diverse populations.

The minimum number of academic units needed to complete the concentration requirements over and above the MPH core requirements is 18 units.

Course of Study:

Students are required to complete the following courses:

222.641 Principles of Human Nutrition (4 units)* – 1st term
222.860 Graduate Nutrition Seminar (4 units, 1 per term) 1st through 4th terms

Students are required to complete one of the following “methods” courses:
222.642 Assessment of Nutritional Status (3 units) – 2nd term
222.647 Nutrition Epidemiology (3 units) – 3rd term

Students are required to complete at least three of the following courses:
222.657 Food and Nutrition Policy (2 units) – 1st term
222.651 Advanced Nutrient Metabolism (3 units) – 2nd term
222.655 Nutrition and Life Stages (3 units) – 3rd term
221.611 Food, Nutrition and Livelihood in Humanitarian Emergencies (2 units) 4th term
222.649 International Nutrition (3 units) – 4th term
222.654 Food, Culture, Nutrition (4 units) – 4th term
222.656 Critical Analysis of Popular Diets and Dietary Supplements (3 units) – 4th term

Note: if the student takes both “methods” courses, only one can be counted towards this requirement.

Other Nutrition-related Courses:
222.658 Critical Thinking in Nutrition (1 unit) – 1st term
380.641 Prenatal & Infant Growth & Development (3 units) – 1st term
380.642 Child Health & Development (3 units) – 4th term
182.640 Food- and Water- borne Diseases (3 units)* – 3rd term
340.644 Introduction to Diabetes and Obesity Epidemiology (2 units) – 4th term

These courses may not be used to fulfill the course requirements for the concentration but may be of interest to students in the concentration.

*Also fulfills MPH core requirement.
Capstone Experience:

During the year, students are provided a series of course options that reflect the potential domains of interest for students in the concentration with respect to their capstone experience. For example, students interested in addressing problems of undernutrition in developing countries will be interested in “International Nutrition”, while students wishing to focus on health promotion and behavior change will be interested in “Food, Culture and Nutrition”, and other students interested in obesity, health fads, food claims and dietary supplements, might take “Critical Analysis of Popular Diets and Dietary Supplements”.

The capstone experience in Public Health Nutrition involves the application of the skills and competencies acquired during the MPH coursework to the solution of a particular nutrition problem. During the 3rd and 4th terms, all students will sign up for a 2-credit capstone special studies (minimum total of 4 credits over 2 terms) with their faculty mentor for the capstone experience, and will make a formal presentation of their capstone experience during 4th term, as part of the 222.860 Graduate Nutrition Seminar.

Faculty Concentration Directors:

Laura E. Caulfield, PhD, Professor, Center for Human Nutrition, Department of International Health, x5-2786; lcaulfie@jhsph.edu

Eliseo Guallar, MD DrPH, Associate Professor, Department of Epidemiology x4-0574, eguallar@jhsph.edu
# Public Health Nutrition

## 2007-2008

<table>
<thead>
<tr>
<th>Course Description</th>
<th>1st Term</th>
<th>2nd Term</th>
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<tbody>
<tr>
<td>Students are required to complete the following courses:</td>
<td>1. M &amp; W 1:30-3:20pm</td>
<td>2. Th 12:15-1:15pm</td>
<td>2. 12:00-1:20pm</td>
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<tr>
<td>1. 222.641 Principles of Human Nutrition (4)* – 1st term</td>
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<td>2. 222.686 Graduate Nutrition Seminar (1 unit per term) – 1st-4th terms</td>
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<td>Students are required to complete one of the following “methods” courses:</td>
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<tr>
<td>1. 222.642 Assessment of Nutritional Status (3) – 2nd term</td>
<td>1. T &amp; Th 8:30-9:50pm</td>
<td>2. T &amp; Th 3:30-4:50pm</td>
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<td>2. 222.647 Nutrition Epidemiology (3) – 3rd term</td>
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<td>Students are required to complete at least three of the following courses:</td>
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<tr>
<td>2. 222.651 Advanced Nutrient Metabolism (3) – 2nd term</td>
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<td>Prerequisite: 221.613</td>
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<td>3. 222.655 Nutrition &amp; Life Stages (3) – 3rd term</td>
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<td>4. 221.611 Food, Nut. &amp; Livelihood in Humanitarian Emergencies (2) – 4th term</td>
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<td>6. M &amp; W 1:30-3:20pm</td>
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<td>5. 222.649 International Nutrition (3) – 4th term</td>
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<td>7. W &amp; F 3:30-4:50pm</td>
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<td>6. 222.654 Food, Culture, Nutrition (4) – 4th term</td>
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<td>Prerequisite: 222.641 &amp; 140.611 &amp; 612</td>
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<td>7. 222.656 Critical Analysis of Popular Diets and Dietary Supplements (3) – 4th T.</td>
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<td>Other Nutrition-related course:</td>
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<tr>
<td>2. 380.641 Prenatal &amp; Infant Growth &amp; Development (3) – 1st term</td>
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<td>Prerequisite: 340.601</td>
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<td>3. 380.642 Child Health &amp; Development (3) – 2nd Term</td>
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<td>4. 182.640 Food- and Water- borne Diseases (3)* – 3rd term</td>
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<td>5. 340.644 Introduction to Diabetes and Obesity Epi (2) – 4th term</td>
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<tr>
<td>Capstone: (at least 4 units)</td>
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<td></td>
<td>at least 2 units of Capstone special studies</td>
<td>at least 2 units of Capstone special studies</td>
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</table>

*Also fulfills MPH core requirement.
14.8 MPH CONCENTRATION
PUBLIC HEALTH PREPAREDNESS

Educational Objectives:

The MPH concentration in Public Health Preparedness develops the knowledge and skills that are required for leading national and international public health preparedness efforts, as well as the general practice of public health. The concentration will actively involve experts in the field, will use case study approaches to learning the core competencies, and will present the students with contemporary preparedness and practice challenges. Students will be encouraged to go outside the walls of the institution to observe and participate in public health in action. The course sequence will include courses in assessment of disasters and emerging public health threats, public health preparedness and practice related policy development and management (including emergency management) and communicating to the public and the media. The concentration requires a minimum of 11 hours of coursework in addition to the MPH core requirements.

The competencies that will be developed, which are based on the Council on Public Health Linkages framework for the core competencies of public health practice include:

- Monitor baseline and disaster-related health status to identify community health problems
- Diagnose and investigate emerging public health problems and health hazards in a community, particularly with regards to disaster
- Inform, educate, and empower people about public health preparedness related issues
- Develop policies and plans that support individual and community health efforts to prevent disasters before they happen, improve the response to disasters and address public health issues in disaster recovery
- Link people to needed personal health services during and in the aftermath of disasters

The minimum number of academic units needed to complete the concentration requirements over and above the MPH core requirements is 17 units.

Course of Study:

Students are required to complete the following courses:
180.840 Public Health Preparedness MPH Seminar (1 unit) – 1st & 2nd terms
305.607 Public Health Practice (4 units)* – 2nd term [Internet – 4th term]
180.670 Terrorism and Public Health (3 units) – 3rd term
xxx.xxx Preparedness Special Studies (1 unit) – 3rd term
180.688 Mental Health Aspects of Disasters (2 units) – 4th term
Students are required to take at least three units of the following courses:

- 221.613 Introduction to Humanitarian Emergencies (2 units) – 1st term
- 305.612 Epidemiology of Injuries (4 units) – 2nd term
- 182.640 Food- and Water-Borne Diseases (3 units)* – 3rd term
- 551.605 Case Studies in Management Decision-Making (3 units) – 3rd term
- 180.611 The Global Environment and Public Health (4 units) – 4th term
- 180.631 Environmental and Occupational Health Policy Seminar (3 units) – 4th term
- 309.630 Emergency Medical Services and Trauma Systems (3 units) – 4th term

The following courses are recommended:

- 186.601 Introduction to Radiation Health Science (3 units) – 1st term
- 317.600 Introduction to Risk Sciences and Public Policy (3 units) – 1st term [Internet – 3rd term]
- 223.662 Vaccine Development and Application (3 units) – 2nd term
- 223.687 Vaccine Policy Issues (3 units) – 3rd term
- 221.633 Public Health Issues in Disasters (2 units) – 3rd term
- 301.627 Understanding and Preventing Violence (3 units) – 4th term
- 312.665 Conflict Management Skills Training (2 units) – 4th term

*Also fulfills MPH core requirement.

**Capstone Experience:**

The MPH capstone experience in Public Health Preparedness will involve the application of the acquired competencies to critical issues concerning preparedness facing public health practitioners. As part of the capstone experience, all students will be required to participate in a year-long information seminar series that occurs at least quarterly. In the 3rd and 4th terms, students will undertake an MPH capstone experience for a total of at least 3 units of capstone special studies under the direction of the concentration faculty (which includes the MPH core requirement). Each student will present the work in an oral presentation in a special MPH symposium in May or at an alternative venue approved by the concentration faculty.

**Faculty Concentration Directors:**

Alison Geyh, PhD, Assistant Professor, Environmental Health Sciences
x5-3546; ageyh@jhsph.edu

Kellogg Schwab, PhD, Associate Professor, Environmental Health Sciences
x4-5753; kschwab@jhsph.edu

Lynn Goldman, MD, MPH, Professor, Environmental Health Sciences
x4-9301; lgoldman@jhsph.edu
# Public Health Preparedness
## 2007-2008

<table>
<thead>
<tr>
<th>Requirements:</th>
<th>1st Term</th>
<th>2nd Term</th>
<th>3rd Term</th>
<th>4th Term</th>
</tr>
</thead>
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<tr>
<td>1. 180.840 Public Health Preparedness MPH Seminar (1 unit) – 1st &amp; 2nd terms</td>
<td>1. TBA</td>
<td>1. TBA</td>
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<td>4. T 1:30-3:20pm</td>
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<tr>
<td>2. 305.607 Public Health Practice (4 units)* – 2nd term [Internet – 4th term]</td>
<td>2. T &amp; Th 8:30-10:20am</td>
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<td>3. T &amp; Th 9-10:20am</td>
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<tr>
<td>3. 180.670 Terrorism and Public Health (3 units) – 3rd term</td>
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<tr>
<td>xxx.xxx Preparedness Special Studies (1 unit) – 3rd term</td>
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<tr>
<td>4. 180.688 Mental Health Aspects of Disasters (2 units) – 4th term</td>
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</table>

- **Students are required to take at least three units of the following courses:**
  1. T 5:00-6:50pm
  2. M & W 1:30-3:20pm
  3. T & Th 1:30-2:50pm
  4. W 1:30-4:20pm
  5. T & Th 8:30-10:20am
  6. T & Th 1:30-2:50pm
  7. M & W 3:30-4:50pm

- **The following courses are recommended:**
  1. M & W 8:30-9:50am
  2. M & W 5:00-6:30pm
  3. T & Th 5:00-6:30pm
  4. T & Th 5:00-6:30pm
  5. W 5:00-7:00pm
  6. T & Th 9:00-10:20am
  7. F 1:30-7:00pm
  S 9:00am-5:00pm

- **Capstone (3 units) of capstone special studies.**

*Also fulfills MPH core requirements.*
14.9 MPH CONCENTRATION
SOCIAL AND BEHAVIORAL SCIENCES IN PUBLIC HEALTH

Educational Objectives:

The MPH concentration in Social and Behavioral Sciences in Public Health provides students with competencies in the areas of: 1) theoretical basis of behavioral intervention and psychosocial influences on health and illness; 2) intervention design and implementation; and 3) program evaluation.

The specific competencies included under these topic areas are:

1) Theoretical basis of social and behavioral intervention and psychosocial influences on health and illness. These have implications for both behavioral interventions and understanding psychosocial influences on health and social policies that affect health.
   • Identify social and psychological factors and processes in the etiology of disease and health related behaviors
   • Articulate the influence of major social structural divisions such as gender, SES, and ethnicity on health and health related behaviors
   • Appropriately select and apply behavior change theories to studying health problems in diverse populations

2) Behavior change intervention design and implementation:
   • Apply principles from educational, behavioral, communication, social and psychological theory to influence health related behaviors in diverse populations
   • Utilize effective formative research, needs assessment and program planning skills to design health promotion programs
   • Implement a wide array of behavior change strategies, including media-based (mass media, small media, electronic media), interpersonal communication, social support and social network based interventions, advocacy and community organizing

3) Behavior change program evaluation:
   • Conduct process, impact, and outcome evaluations of health behavior change programs
   • Articulate and address issues that facilitate implementation and sustainability of effective behavior change programs

Students completing this concentration can focus on skills in designing, implementing, and evaluating programs promoting healthy behaviors in international and/or domestic settings. Students can also focus on analysis of psychological and social influences on health and behavior. They can obtain skills necessary for working with diverse populations, on a variety of health topics, and in non-profit organizations and government agencies at all levels. The concentration includes required and elective courses, a special seminar, and a capstone experience. Students completing this concentration may be eligible to take the national certifying exam to become a Certified Health Education Specialist.

The minimum number of academic units needed to complete the concentration requirements over and above the MPH core requirements is 18 units.

Course of Study:

Students must choose 2 courses in Theoretical Basis from the following list:
1. 410.612 Sociological Perspectives on Health (3) – 1st term
2. 410.616 Social & Behavioral Aspects of Public Health (4)* – 1st term
   221.688 Soc.& Beh Founds&Pri Hlth Care (4)* – Internet only-Summer & 2nd T.
3. 224.689 Found. of Beh. Change Interv. in Dev. Countries (4)* – 2nd term
4. 410.613 Psychosocial Factors in Hlth & Illness (4)* – 2nd term
5. 330.661 Social & Psych. Dev. Processes&Etiology of Mental Disord. (3)*–3rd T.
6. 223.680 Global Disease Control Programs & Policies (4) – 4th term
7. 222.654 Food, Culture, & Nutrition (4) – 4th term
8. 330.612 Introduction to Behavioral and Psychiatric Genetics (3) – 3rd Term
9. 330.623 Brain and Behavior in Mental Disorders (3) – 4th Term
10. 380.356 Social, Behavioral, and Genetic Determinants of Mortality – 3rd Term

Students must choose Two of the following courses in Methods, Design & Implementation:
1. 410.620 Fundamentals of Hlth Education & Hlth Promotion (3)* – 1st term
2. 410.690 Ethnographic Fieldwork (4) – 3rd term
3. 410.650 Intro. to Persuasive Comm: Theories & Practice (4)* – 3rd term
4. 410.651 Comm. Strategies for Hlth Edu. & Hlth Promotion (4)* – 3rd term
5. 410.654 Health Communication Programs I (4) – 3rd term
6. 410.655 Health Communication Programs II (4) – 4th term
   (410.654 req for this course)
7. 410.710 Concepts In Qualitative Research For Social And Behavioral Sciences (3) – 4th Term

Students must choose one of the following courses in Program Evaluation from the following list:
380.611 Fundamentals of Program Evaluation (4 units) – 3rd term
410.615 Research Design in Social & Behavioral Sciences (3 units) – 3rd term
410.630 Implementation & Sustainability of Community-Based Health Programs (3 units) – 4th term

*Also fulfills MPH core requirement.

Capstone Experience:

The MPH capstone experience in Social and Behavioral Sciences in Public Health is designed to give students an opportunity to apply their acquired competencies. Students will choose to work on one of the following skill sets, each of which will integrate course material across all areas of the MPH curriculum. For each skill set, students will focus on a specific health behavior problem. The capstone experience may be completed in partnership with a community organization or agency, at the discretion of the student and the advisor.

1) Grant writing. The student will prepare a grant proposal (to a foundation, non-governmental organization, community-based organization, or to a federal agency) to address a specific health behavior change problem.
2) Systematic literature review. The student will prepare a systematic review of the literature on a specific health behavior topic.
3) Intervention design/implementation. The student will prepare a detailed plan for a health behavior intervention for a specific population and health behavior topic.
4) Program evaluation. The student will prepare a detailed evaluation plan (process, impact, and outcome) for a behavior change intervention program.
5) Formative Research Project. The student will prepare a research plan for a formative research project addressing topics relevant to development of a behavioral intervention.
6) Research Project Addressing Social and Behavioral Issues in Health. The student will identify an available source of data and conduct analyses to examine a specific question relevant to social and behavioral influences on the public’s health.

Capstone Special Studies Credits Required: Students will take 1 unit of Special Studies Seminar for students in this concentration in both 1st and 2nd terms; and 2 units of Capstone Special Studies in both 3rd and 4th terms with their advisor to complete the capstone experience. Thus, a total of 6 units of special studies are required to complete the capstone.

Faculty Concentration Directors:
Andrea Gielen, ScD, Professor, Health, Behavior & Society, x5-2397; agielen@jhsph.edu
Michael Sweat, PhD, Associate Professor, International Health, x5-6964; msweat@jhsph.edu
(revised July 2007)
# Social & Behavioral Sciences in Public Health
**2007-2008**

## Theoretical – Choose 2 courses from below:

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Term</th>
<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>410.612</td>
<td>Sociological Perspectives on Health (3)</td>
<td>1st Term</td>
<td>3</td>
<td>M &amp; W 3:30-4:50pm</td>
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<tr>
<td>410.616</td>
<td>Social &amp; Behavioral Aspects of Public Health (4)*</td>
<td>1st Term</td>
<td>4</td>
<td>W &amp; F 10:30-11:50am</td>
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<tr>
<td>221.688</td>
<td>Soc. &amp; Beh Founds/Pri Hlth Care (4)* – Internet only-Summer &amp; 2nd T.</td>
<td>1st Term</td>
<td>4</td>
<td>M &amp; W 1:30-3:20pm</td>
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<tr>
<td>224.689</td>
<td>Found. of Beh. Change Interv. in Dev. Countries (4)*</td>
<td>2nd Term</td>
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<td>T &amp; Th 8:30-10:20am</td>
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<tr>
<td>410.613</td>
<td>Psychosocial Factors in Hlth &amp; Illness (4)*</td>
<td>2nd Term</td>
<td>4</td>
<td>5. M &amp; W 1:30-2:50pm</td>
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<tr>
<td>223.680</td>
<td>Global Disease Control Programs &amp; Policies (4) – 4th term</td>
<td>3rd Term</td>
<td>4</td>
<td>10. T 3:30-7pm</td>
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<tr>
<td>222.654</td>
<td>Food, Culture, &amp; Nutrition (4) – 4th term</td>
<td>3rd Term</td>
<td>4</td>
<td>6. M &amp; W 1:30-3:20pm</td>
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<tr>
<td>330.612</td>
<td>Introduction To Behavioral And Psychiatric Genetics (3) – 3rd term</td>
<td>3rd Term</td>
<td>3</td>
<td>Prerequisite: 340.601</td>
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<tr>
<td>330.623</td>
<td>Brain And Behavior In Mental Disorders (3) – 4th term</td>
<td>3rd Term</td>
<td>3</td>
<td>7. M &amp; W 1:30-3:20pm</td>
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<td>380.356</td>
<td>Social, Behavioral, &amp; Genetic Determinants of Mortality (3) – 3rd T.</td>
<td>3rd Term</td>
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<td>9. M &amp; W 3:30-4:40pm</td>
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<td>380.356</td>
<td>Social, Behavioral, &amp; Genetic Determinants of Mortality (3) – 3rd T.</td>
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<td>10. M &amp; W 3:30-4:20pm</td>
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## Methods, Design & Implementation – Choose 2 courses from below:

<table>
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<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Term</th>
<th>Credits</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>410.620</td>
<td>Fundamentals of Hlth Education &amp; Hlth Promotion (3)*</td>
<td>1st Term</td>
<td>3</td>
<td>T &amp; Th 3:30-4:50pm</td>
</tr>
<tr>
<td>410.690</td>
<td>Ethnographic Fieldwork (4) – 3rd term</td>
<td>3rd Term</td>
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<td>2. M &amp; W 8:30-10:20am</td>
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<td>410.650</td>
<td>Intro. to Persuasive Comm: Theories &amp; Practice (4)* – 3rd term</td>
<td>3rd Term</td>
<td>4</td>
<td>4. T &amp; Th 1:30-3:20pm</td>
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<tr>
<td>410.651</td>
<td>Comm. Strategies for Hlth Edu. &amp; Hlth Promotion (4)* – 3rd term</td>
<td>3rd Term</td>
<td>4</td>
<td>5. M &amp; W 3:30-5:20pm</td>
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<tr>
<td>410.654</td>
<td>Health Communication Programs I (4) – 3rd term</td>
<td>3rd Term</td>
<td>4</td>
<td>6. F 8:00-11:50am</td>
</tr>
<tr>
<td>410.655</td>
<td>Health Communication Programs II (4) – 4th term</td>
<td>3rd Term</td>
<td>4</td>
<td>Prerequisite: 410.654</td>
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<tr>
<td>410.710</td>
<td>Concepts in Qualitative Research for Social &amp; Behavioral Sciences (3) – 4th term</td>
<td>3rd Term</td>
<td>4</td>
<td>Prerequisite: 410.654</td>
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</table>

## Program Evaluation – Choose 1 course from below:

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<th>Term</th>
<th>Credits</th>
<th>Hours</th>
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<tbody>
<tr>
<td>380.611</td>
<td>Fundamentals of Program Evaluation (4) – 3rd term</td>
<td>3rd Term</td>
<td>4</td>
<td>1. W &amp; F 1:30-3:20pm</td>
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<td>410.615</td>
<td>Research Design in the Social &amp; Beh Sciences (3) – 3rd term</td>
<td>3rd Term</td>
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</tr>
<tr>
<td>410.630</td>
<td>Implem &amp; Sustainability Comm-Based Hlth Prgms (3) – 4th term</td>
<td>4th Term</td>
<td>3</td>
<td>3. M &amp; W 9:00-11:50am</td>
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</table>

## Capstone & Seminar.
Students take a 1-unit masters student seminar both in 1st and 2nd terms plus 2 capstone special studies units in both 3rd and 4th terms.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
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<th>Hours</th>
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<td>1 unit seminar</td>
<td>1st Term</td>
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<td></td>
<td>1 unit seminar</td>
<td>2nd Term</td>
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<td></td>
<td>2 units capstone special studies</td>
<td>3rd Term</td>
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<td></td>
<td>2 units capstone special studies</td>
<td>4th Term</td>
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*Also fulfills MPH core requirement.*
**14.10 MPH CONCENTRATION**

**WOMEN’S AND REPRODUCTIVE HEALTH**

**Educational Objectives:**

The MPH concentration in Women’s and Reproductive Health focuses on understanding the health status of women with regard to their general and reproductive health, the determinants of their health status, and preventive strategies and programs to address women’s health and well being, as well as the health of their newborns. Students may opt to focus on women’s, reproductive, or perinatal health, domestically or in a developing country setting. The goals of the concentration, applicable to both domestic and international issues, include providing students with competencies and understanding in several critical areas including:

1) The scope and magnitude of health problems for women with regard to their health in general or reproductive health, with a focus across the life span, and including infectious, chronic and disabling conditions.

2) The determinants of women’s and reproductive health, including socio-economic, cultural, behavioral, environmental, political and other determinants.

3) Analytic skills in the core MPH courses, as they are applied to women’s and reproductive health as well as other possible skills including demographic, evaluation, and epidemiologic methods.

4) Design, development and implementation of public health programs and clinical interventions to improve the reproductive health and well being of women, including programs related to family planning services, safe motherhood, or health during the reproductive years.

The minimum number of academic units needed to complete the concentration requirements over and above the MPH core requirements is 21 units.

**Course of Study:**

Students are required to complete the following course:
380.604 Life Course Perspectives on Health (4 units) – 1st term [Internet – 1st term]

Students are recommended to take the following course:
120.620 Fundamentals of Reproductive Biology (3 units) – 1st term

Students are also required to complete one course from each of the three areas below:

**Epidemiology and Health:**
380.666 Women’s Health (3 units) – 3rd term
380.668 International Perspectives on Women, Gender and Health (3 units) – 3rd term
380.664 Reproductive and Perinatal Epidemiology (4 units) – 4th term

**Policy and Program Issues:**
380.624 Maternal & Child Health Legislation and Programs (4 units) – 2nd term
380.665 Family Planning Policies and Programs (4 units) – 3rd term
380.667 Women’s Health Policy (3 units) – 4th term
Clinical Aspects:
221.627 Issues in Maternal Mortality Reduction in Developing Countries (4 units) – 2nd term
380.760 Clinical Aspects of Reproductive Health (3 units) – 3rd term
380.761 STI Prevention: Using Epidemiology to Inform Policy & Program (4)* – 3rd term [Internet – 4th term]
380.661 Clinical Aspects of Maternal and Newborn Health (3 units) – 4th term

Students must also select two courses from the following electives. A course from the above list that does not fulfill the above course requirements may also be selected to fulfill this requirement.

380.641 Prenatal Infant Growth & Development (3 units) – 1st term
380.767 Couples and Reproductive Health (2 units) – 1st term
380.655 Social and Economic Aspects of Human Fertility (4 units) – 2nd term
380.764 Reproductive Health Research in Developing Countries: Issues & Methods (4 units) – 2nd term OR
380.765 Prev of Infant Mortality & Promoting the Hlth of Women, Infants & Children (3 units) – 2nd term [Internet]
380.662 Issues in Perinatal Research (3 units) – 3rd term
380.671 Adolescent Pregnancy – Causes, Consequences, Interventions (3 units) – 4th term
380.762 HIV Infection in Women, Children and Adolescents: Policy & Prevention (3 units) – 4th term
380.612 Applications in Program Monitoring and Evaluation (4 units) – 4th term

*Also fulfills MPH core requirement.

Capstone Experience:

The MPH capstone experience in Women’s and Reproductive Health is an opportunity for students to apply the competencies and skills acquired through coursework and other related educational activities (e.g. practicum). One option is to take one of the courses listed below with an additional 2 units of capstone special studies. A project may be completed in addition to the work for the main course. Students must arrange with faculty teaching the course to pursue this option and register for capstone special studies credits with the faculty before registering for the course.

380.665 Family Planning Policies and Programs (4 units) – 3rd term
380.671 Adolescent Pregnancy – Causes, Consequences and Prevention (3 units) – 4th term OR
380.762 HIV Infection in Women, Children and Adolescents: Policy & Prevention (3 units) – 4th term

A second option that can be used to fulfill the capstone is to undertake independent investigation with a concentration-affiliated faculty. This option may involve, but is not limited to, undertaking a data analysis, literature review with a focus on policy and programmatic implications, or an analysis of a public health problem using the problem solving paradigm or other related conceptual model. Students will sign up for a total of 4 to 6 academic units for the capstone experience. A written product is required.

Faculty Concentration Directors:

Donna Strobino, PhD, Professor, Population, Family & Reproductive Health
x2-5451; dstrobin@jhsph.edu

Michelle Hindin, PhD, Assistant Professor, Population, Family & Reproductive Health
x2-6038; mhindin@jhsph.edu
# Women’s and Reproductive Health
## 2007-2008

<table>
<thead>
<tr>
<th>Course</th>
<th>1st Term</th>
<th>2nd Term</th>
<th>3rd Term</th>
<th>4th Term</th>
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<tr>
<td><strong>Required:</strong></td>
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<tr>
<td>1. 380.604 Life Course Perspectives on Health (4)* – 1st T. [Internet – 1st term]</td>
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<tr>
<td><strong>Recommended:</strong></td>
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<tr>
<td>2. 120.620 Fundamentals of Reproductive Biology (3)* – 1st term</td>
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<tr>
<td><strong>Epidemiology</strong> - Choose One of the following:</td>
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<td>1. T &amp; Th 8:30-9:50am</td>
<td>2. M 9:00-10:50am &amp; W 9:00-9:50am</td>
<td>3. M &amp; W 1:30-3:20pm [Prerequisite: 340.601]</td>
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<tr>
<td>1. 380.666 Women's Health (3) – 3rd term</td>
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<td>2. 380.668 Int'l Perspective on Women, Gender &amp; Health (3) – 3rd term</td>
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<tr>
<td>3. 380.664 Reproductive &amp; Perinatal Epidemiology (4) – 4th term</td>
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<tr>
<td><strong>Policy</strong> - Choose One of the following:</td>
<td></td>
<td>1. T &amp; Th 8:30-10:20am</td>
<td>2. M &amp; W 1:30-3:20pm</td>
<td>3. F 9:00-11:50am</td>
</tr>
<tr>
<td>1. 380.624 Maternal &amp; Child Hlth Legislation &amp; Programs (4) – 2nd term</td>
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<td>2. 380.665 Family Planning Policies &amp; Programs (4) – 3rd term</td>
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<tr>
<td>3. 380.667 Women’s Health Policy (3) – 4th term</td>
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<tr>
<td><strong>Clinical</strong> - Choose One of the following:</td>
<td>1. M &amp; W 3:30-5:20pm</td>
<td>2. W &amp; F 10:30-11:50am</td>
<td>3. T &amp; Th 1:30-3:20pm [Prerequisite: 550.630]</td>
<td>4. T &amp; Th 8:30-9:50am</td>
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<tr>
<td>1. 221.627 Issues in Maternal Mortality Reduction in Dev Countries (4) – 2nd T.</td>
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<tr>
<td>2 380.760 Clinical Aspects of Reproductive Health (3) – 3rd term</td>
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<tr>
<td>3. 380.761 STI Prevention: Using Epi to Inform Policy &amp; Program (4)* – 3rd term [Internet – 4th term]</td>
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<td>4. 380.661 Clinical Aspects of Maternal &amp; Newborn Health (3) – 4th term</td>
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<td>Choose Two of the following:</td>
<td>1. 380.641 T &amp; Th 1:30-2:50pm</td>
<td>3. 380.655 W &amp; F 10:30am-11:50am</td>
<td>5. 380.662 T &amp; Th 3:30-4:50pm</td>
<td>6. 380.671 T &amp; Th 3:30-4:50pm</td>
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<tr>
<td>2. 380.767 T 3:00-4:50pm [Prerequisite: 380.600]</td>
<td>4. 380.764 T &amp; Th 1:30-3:20pm</td>
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<td>7. 380.762 T &amp; Th 3:30-5:00pm</td>
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<tr>
<td>380.612 W&amp;E 1:30-3:20 pm [Prerequisite: 380.611]</td>
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<td><strong>Capstone:</strong> 2-6 units capstone special studies</td>
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<td>And/Or 380.665 Family Planning Policies &amp; Programs (4) – 3rd term</td>
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<td>380.671 Adolescent Pregnancy–Causes, Conseq</td>
<td>Prev (3) – 4th term</td>
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<td>380.671: T &amp; Th 3:30-4:50pm</td>
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<tr>
<td>380.762 HIV Infec</td>
<td>Women, Children &amp; Adol: Policy (3) – 4th term</td>
<td></td>
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<td>380.762: T &amp; Th 3:30-5:00pm</td>
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<td>380.667 M &amp; W 1:30-3:20pm</td>
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*Also fulfills MPH core requirement.*