MASTER OF PUBLIC HEALTH
STUDENT HANDBOOK
2012-2013
Preface

This Handbook offers an overview of the policies and procedures that affect students in the Master of Public Health degree program. However, it does not represent a contract with students as policies and procedures presented herein can change without notice. While not an official document, the Handbook is intended to serve as a guideline for the degree program within the context of the University of Kentucky Regulations and Procedures. Questions should be directed to the Director of Graduate Studies or to the Director of Admissions. The College is headed by a Dean and a staff of administrators.

University of Kentucky College of Public Health

Mission Statement
As a component of Kentucky’s land grant institution, the Mission of the College of Public Health at the University of Kentucky is to apply comprehensive health approaches to understand better and to help reduce the burdens and disparities of health problems on individuals, families and communities.

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Revised August 2012
# Master of Public Health Student Handbook

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Letter from the Dean

Dear M.P.H. Students:

I am pleased that you have decided to attend the University of Kentucky to pursue a Master of Public Health degree from the College of Public Health. The faculty and staff of the College of Public Health, welcome you to the University, the College and congratulate you on choosing a most important and exciting field of study. We are proud of the opportunity to contribute to improving the health status of Kentucky’s citizens, by training the next generation of public health leaders. Providing you and your peers, with a solid educational foundation is an important responsibility, and one that we take seriously.

Public health has had a resurgence of interest among the public, the healthcare community, and policy-makers in recent years. As we focus on the premise that prevention of disease is the best approach to controlling costs and improving the health status of populations, more and more individuals who want to make a contribution to society see careers in public health as an avenue to accomplish their goals.

Since the founding of the Johns Hopkins School of Public Health in 1916, we have seen a growth in the number of schools dedicated to population-based approaches to improving the health of populations. Our College of Public Health joins more than 45 other accredited schools in providing degree programs that allow students to prepare for exciting careers in public health. Through our efforts in education, research and service, our mission at the University of Kentucky College of Public Health is to make Kentucky, the nation, and the world a healthier place to live. We have a new, vibrant, and exceptional opportunity to work with the many academic programs and resources of the University to contribute to its efforts to become a top 20 public research university by 2020. We are delighted that you have decided to join us, a recently ranked Top 25 School of Public Health, and we look forward to helping you prepare for your future.

Regards,

Stephen W. Wyatt, D.M.D, MPH
Dean, University of Kentucky College of Public Health
The University of Kentucky

The University of Kentucky, a land grant institution, was established in 1865. It began offering graduate work in 1870 and awarded its first graduate degrees in 1876. The University is a complex institution with both a liberal arts school and a number of professional schools. As the Commonwealth’s comprehensive institution of higher learning, it is charged with a statewide mission in higher education, research, and service. The University ranks among the top 70 U.S. research universities, according to the Carnegie Foundation for the Advancement of Teaching.

From an enrollment of 273 students in 1876, the University has grown to include over 30,000 students. There are 90 program areas awarding doctoral degrees in 61 fields, masters degrees in 120 fields, and 5 specialist degrees. Currently, more than 5800 graduate students per year are enrolled in these degree programs and other advanced study programs which are centrally administered by the Graduate School. There are over 8,000 faculty and staff members on the Lexington campus alone. UK is the largest single employer in the Lexington-Fayette County area.

The University is organized under a Provost, who is responsible for the academic programs of all colleges. They include Agriculture, Architecture, Arts and Sciences, Business and Economics, Communications, Education, Engineering, Fine Arts, The Graduate School, Human Environmental Sciences, Law, Library and Information Sciences, Social Work, Health Sciences, Dentistry, Medicine, Nursing, Pharmacy, and Public Health. The University of Kentucky Albert B. Chandler Hospital, which provides comprehensive treatment to patients, and extensive teaching opportunities for the health professions colleges is located in close proximity to central campus.

History

The University of Kentucky has provided graduate education in public health since 1988, when the Master of Science in Public Health degree program was approved by the Commonwealth of Kentucky’s Council on Higher Education. It was originally designed to provide academic support for medical residents in the Department of Preventive Medicine’s programs in general preventive medicine and occupational medicine. However, the program was later made available to individuals who met admission requirements and demonstrated a career interest in public health. The program offered its first graduate courses that same year, and awarded its first MSPH degree in 1989. There are over 75 graduates of the MSPH program.

With the advent of the University of Kentucky School of Public Health, the public health degree officially became the Master of Public Health (MPH) degree in January 2000. The first full MPH class of students was accepted for the Fall 2000 semester, and the first sixteen graduates were honored in a formal ceremony in May, 2002. On May 4, 2004, the Board of Trustees granted college status to the school making it the sixth college at the University of Kentucky Chandler Medical Center and the first new college at UK in nearly 40 years. In May 2005, the University of Kentucky College of Public Health received full accreditation from the Council on Education for Public Health (CEPH), the agency that is sanctioned by the Department of Education to accredit schools/colleges of public health. In
October, 2010, the College of Public Health was re-accredited for a seven-year term, extending to December 31, 2017.

**Location**

The University of Kentucky College of Public Health is based in the College of Public Health Building at 111 Washington Avenue. Many core faculty, the academic departments, the College’s Dean, and the Admissions/Student Affairs Office are located at that site. Students are advised to familiarize themselves with the Washington Avenue location in order to utilize the services and resources available through the UKCPH’s faculty and staff.

The College of Public Health is located in close proximity to a number of public health and health administration organizations. The college is only 30 miles from the state capitol in Frankfort, which has facilitated close interaction with various state agencies, the use of state personnel as preceptors, and the development of research and service contracts. State officials serve on the college’s advisory committees and hold voluntary faculty appointments in the college.
MPH Core, Cross-Cutting and Discipline Specific Competencies

The MPH program faculty has identified competencies for the core curriculum instruction and related program assessment. All students are expected to have developed the following competencies upon completion of the MPH Program.

**Five Core courses and CPH 663**

1. Assess population-based health problems from the perspective of multiple public health science disciplines.
2. Propose potential solutions to public health problems based on an understanding of systems theory, essential services, and social, behavioral, environmental, and biological factors that contribute to the problem.
3. Identify basic theories, concepts and models from a range of social and behavioral disciplines that are used in public health research and practice.
4. Identify the causes of social and behavioral factors that affect health of individuals and populations.
5. Identify the main components and issues of the organization, financing, and delivery of health services and public health systems in the U.S.
6. Apply the principles of planning, staffing, managing and evaluation in organizational and community initiatives.
7. Apply quality and performance improvement concepts to organizational performance.
8. Explain the importance of epidemiology for informing scientific, ethical, economic and political discussion of health issues.
9. Use basic terminology and definitions of epidemiology.
10. Identify key sources of data for epidemiologic purposes.
11. Calculate basic epidemiologic measures and draw appropriate inferences.
12. Describe the federal and state regulatory programs, guidelines, and authorities that control public health.
13. Describe the genetic, physiologic, and psychosocial factors that affect susceptibility to adverse health outcomes following exposure to environmental hazards.
14. Explain approaches for assessing, preventing, and controlling environmental hazards that pose risks to human health and safety.
15. Describe basic concepts of probability, random variation, and commonly used statistical probability distributions.
17. Recognize the assumptions and limitations of common statistical methods and choose appropriate approaches for analysis.

**Cross-Cutting Competencies**
18. Organize and deliver effective written and verbal communications about public health activities using appropriate communication strategies to professionals, labor, industry, the general public and the media.
19. Use evidence based principles and scientific knowledge effectively when involved in evaluation and decision-making in public health.
20. Manage potential conflicts of interest encountered by practitioners, researchers, and organizations.
21. Collaborate in interprofessional partnerships to implement organizational initiatives at the individual, organizational, and community level.
22. Apply ethical principles to public health program planning, implementation and evaluation.

**MPH Concentration-Specific Competencies**

Departments offering concentrations in the MPH program have identified competencies that students concentrating in that area are expected to have developed by program completion. These competencies go beyond the core competencies identified above that all students are expected to have attained. The concentration-specific competencies are the basis of both instruction and assessment.

**Health Behavior**

1. Utilize a basic planning framework (Precede Proceed) and demonstrate proficiency in applying this to theories, concepts and models used for intervention at the individual-level, the community-level, and the societal-level.
2. Utilize qualitative and quantitative methods to identify disparate health outcomes and develop culturally relevant strategies for preventing and/or eliminating them.
3. Demonstrate proficiency in knowledge and critical reasoning needed for health promotion research and practice, and describe the “nested nature” of public health behavior problems and programs.
4. Assess the effectiveness of an existing program through the application of evidence-based approaches as they pertain to the development and evaluation of social and behavioral science interventions.

**Epidemiology**

1. Assess public health problems in terms of magnitude, person, time and place.
2. Evaluate the strengths and limitations of epidemiologic reports.
3. Identify basic ethical and legal principles pertaining to the collection, maintenance, use and dissemination of epidemiologic data.
4. Identify the principles and limitations of public health screening programs.

**Health Services Management**

1. Organize the work environment with defined lines of responsibility, authority, communication, and governance.
2. Evaluate organizational performance and outcomes in relation to the organization’s policies, goals, and objectives.
3. Select appropriate principles of budgeting and financial management to apply to the operation of public health organizations and agencies.
4. Design action plans for building public and political support for programs and policies.
5. Implement strategic planning processes.

**Environmental Health**

1. Prepare small scale studies that evaluate interventions that reduce occupational and environmental risks to targeted populations.
2. Critique scientific literature in occupational and environmental health to determine its relevance to advancing practice-based strategies that reduce threats from environmental and occupational hazards.
3. Propose engineering, educational, policy and enforcement strategies that reduce occupational and environmental health risks in populations.
4. Summarize the role of policy, regulation and enforcement to prevent, modify and remove environmental and occupational hazards and risks.
5. Construct working groups and teams from different backgrounds to improve the public’s health when threatened by environmental and occupational health hazards.

**Biostatistics**

1. Apply the basic concepts of probability, random variation, and commonly used probability distributions.
3. Recognize the assumptions and limitations of common statistical methods and choose appropriate approaches for analysis.
4. Develop written and oral presentations based on statistical analyses for both public health professionals and educated lay audiences.

**Gerontology**

1. Identify basic theories, concepts and models of aging and human development over the course of life.
2. Analyze the implications of the interrelationships between demography, societal change, and the health of aging populations.
3. Assess historical, social, cultural, environmental, and social justice influences on the status and health of older adult populations.
4. Communicate effectively gerontological information to public and professional audiences.
5. Apply evidence–based approaches in the ethical development and evaluation of public health-related programs for older adults.
Course Listings/Core Curriculum

Core Courses – 15 Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPH 604</td>
<td>Public Health and Disease Prevention</td>
<td>3</td>
</tr>
<tr>
<td>STA 580</td>
<td>Biostatistics I</td>
<td>3</td>
</tr>
<tr>
<td>CPH 601</td>
<td>Occupational/Environmental Health I</td>
<td>3</td>
</tr>
<tr>
<td>CPH 605</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>CPH 650</td>
<td>Management of Public Health Organizations</td>
<td>3</td>
</tr>
</tbody>
</table>

Overview Course - Required

CPH 663 Public Health Practice and Administration 3
(Recommended enrollment student’s first semester)

Research Hours Elective – 3 Credit Hours

(CPH 647 - Health Behavior, Health Services Management, and Environmental Health) 3
(Biostatistics and Epidemiology will derive their 3 credit hours from a list of electives)

Required Field Experience

CPH 609 Field Practicum 3

Capstone Course – 3 Credit Hours

CPH 608 3

Courses required in concentration area

(varies by concentration)

Total 42

PROGRAM REQUIREMENT

Beginning Fall 2009, all entering MPH students will be required to complete an MPH Competency Assessment Examination based on the required 18 hours of core competency courses in the MPH program. The results of the examination will initially be used as a part of a feedback loop between course objectives and student learning outcomes. The primary purpose of the examination is to determine how well the curriculum enables students to demonstrate competency at the awareness, knowledge, or proficiency levels in six core areas of public health. It will also serve as a “practice” test for the National Board of Public Health Examiners (NBPHE)’s Certified in Public Health exam (www.publichealthexam.org). Details of the examination and instructions for completing the assessment test will be provided by the Director of Graduate Studies via an e-mail alert during the 10th week of the Fall semester.
# Concentration Area Curriculum

## Biostatistics*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPH 630</td>
<td>Biostatistics II</td>
<td>3</td>
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</tbody>
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### Electives I** (3 courses required)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPH 535</td>
<td>Database and SAS Programming or</td>
<td></td>
</tr>
<tr>
<td>BST 639</td>
<td>Computing Tools</td>
<td>3</td>
</tr>
<tr>
<td>CPH 631</td>
<td>Design and Analysis of Health Surveys</td>
<td>3</td>
</tr>
<tr>
<td>CPH 632</td>
<td>Mixed Models in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 636</td>
<td>Data Mining in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 664</td>
<td>Design and Analysis of Clinical Trials</td>
<td>3</td>
</tr>
<tr>
<td>BST 655</td>
<td>Statistical Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BST 761</td>
<td>Time to Event Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

### Electives II** (2 courses required)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPH 535</td>
<td>Database and SAS Programming</td>
<td>3</td>
</tr>
<tr>
<td>CPH 631</td>
<td>Design and Analysis of Health Surveys</td>
<td>3</td>
</tr>
<tr>
<td>BST 655</td>
<td>Statistical Genetics</td>
<td>3</td>
</tr>
<tr>
<td>CPH 636</td>
<td>Data Mining in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 664</td>
<td>Design and Analysis of Clinical Trials</td>
<td>3</td>
</tr>
<tr>
<td>CPH 712</td>
<td>Advanced Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>BST 675</td>
<td>Biometrics I</td>
<td>4</td>
</tr>
<tr>
<td>BST 676</td>
<td>Biometrics II</td>
<td>4</td>
</tr>
<tr>
<td>BST 760</td>
<td>Advanced Regression Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BST 761</td>
<td>Time to Event Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BST 762</td>
<td>Longitudinal Data Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BST 763</td>
<td>Analysis of Categorical Data</td>
<td>3</td>
</tr>
<tr>
<td>STA 673</td>
<td>Distribution Free Statistical Interference</td>
<td>2</td>
</tr>
<tr>
<td>STA 677</td>
<td>Applied Multivariate Methods</td>
<td>3</td>
</tr>
<tr>
<td>INF 520</td>
<td>Bioinformatics</td>
<td>3</td>
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*To concentrate in Biostatistics, an undergraduate course in Calculus is a prerequisite. Undergraduate courses in Computer Programming and Statistical Methods are highly recommended as prerequisites.

**Courses cannot count for both Electives I and II simultaneously.
Biostatistics Curriculum Overview
Students interested in pursuing a Master’s Degree in Public Health
with a concentration in Biostatistics

I. One semester of calculus is required for all students pursuing a biostatistics concentration. Undergraduate courses in computer programming and statistical methods are highly recommended.

II. All students pursuing a MPH Degree must take each of the introductory courses in all five of the core areas and the required CPH 663 course, Public Health Practice and Administration.

III. Students who wish to complete a concentration in Biostatistics are strongly encouraged to take Biostatistics I (STA 580) in their first semester and Biostatistics II (CPH 630) in their second semester.

IV. Students pursuing a concentration in Biostatistics are required to take three elective courses from the list:
   - Databases and SAS Programming (CPH 535)
   - Design and Analysis of Health Surveys (CPH 631)
   - Design and Analysis of Clinical Trials (CPH 664)
   - Data Mining in Public Health (CPH 636)
   - Statistical Genetics (CPH 633).

   Students interested in careers in industry are strongly encouraged to take CPH 664.

V. Students pursuing a concentration in Biostatistics are required to take two additional elective courses from the list:
   - Databases and SAS Programming (CPH 535)
   - Design and Analysis of Health Surveys (CPH 631)
   - Data Mining in Public Health (CPH 636)
   - Design and Analysis of Clinical Trials (CPH 664)
   - Advanced Epidemiology (CPH 712)
   - Biometrics I (BST 675)
   - Biometrics II (BST 676)
   - Advanced Regression (BST 760)
   - Time to Event Analysis (BST 761)
   - Longitudinal Data Analysis (BST 762)
   - Analysis of Categorical Data (BST 763)
   - Distribution Free Statistical Inference (STA 673)
   - Applied Multivariate Methods (STA 677)
   - Bioinformatics (INF 520).

   There may be other courses offered by the Graduate School that could serve as a elective in Biostatistics. **However, students wishing to take a course as a substitute for one of the biostatistics electives must have the change approved in advance by the Department Chair.**

VI. Students concentrating in Biostatistics will be expected to complete a field practicum (CPH 609) but must complete four of the five MPH core courses including STA 580 before beginning the Practicum. Completion of CPH 630 is also highly recommended prior to the practicum.
VII. Finally, students concentrating in Biostatistics will satisfy their capstone requirement by taking CPH 608-002 (Biostatistics Section). By CPH rules a student can appeal this requirement and instead with permission of the Department complete a capstone after taking the course CPH 608-001 (general MPH capstone section). In both cases a final oral examination is required to satisfy this requirement.

VIII. Students who take four courses a semester are able to complete the program in four semesters. On average, it will take full-time (3 courses/semester) students four semesters and a summer session to complete the MPH degree with a concentration in Biostatistics.

Class hours are as follows for curriculum selected:
A. MPH Core courses 15 hours
B. Required course CPH 663 3 hours
C. Required area course: Biostatistics II, CPH 630* 3 hours
D. Elective courses in Biostatistics* 15 hours
E. Practicum Field Experience CPH 609 3 hours
F. Capstone Course CPH 608 3 hours

Minimum total hours 42 hours

*ONE of the electives plus CPH 630 satisfies the Research Hours requirement for the MPH degree.

The following represents a sample schedule for a Biostatistics Concentrator.

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<thead>
<tr>
<th>First Semester (Fall)</th>
<th>Second Semester (Spring)</th>
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<tbody>
<tr>
<td>CPH Core Course</td>
<td>CPH 630 Biostatistics II</td>
</tr>
<tr>
<td>STA 580 Biostatistics I</td>
<td>CPH 712 Advanced Epidemiology</td>
</tr>
<tr>
<td>CPH 605 Epidemiology</td>
<td>CPH 535 Database &amp; SAS Programming</td>
</tr>
<tr>
<td>CPH 663 Public Health Practice/Admin</td>
<td>CPH Core Course</td>
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<tr>
<td>Third Semester (Fall)</td>
<td>Fourth Semester (Spring)</td>
</tr>
<tr>
<td>CPH 664 Clinical Trials*</td>
<td>CPH 663 Statistical Genetics*</td>
</tr>
<tr>
<td>BST 761 Time to Event Analysis*</td>
<td>CPH 608-002 (Biostatistics Section)</td>
</tr>
<tr>
<td>CPH Core Course</td>
<td>Approved Biostatistics Elective (if needed)</td>
</tr>
<tr>
<td>CPH 609 Practicum</td>
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</tbody>
</table>

*Can be substituted for an approved Biostatistics Elective
Epidemiology

Area Requirements
CPH 712 Advanced Epidemiology 3
CPH 630 Biostatistics II 3

Electives (3 courses required)
Courses beyond the 3 required electives may be used as electives.
CPH 610 Injury Epidemiology 3
CPH 612 Infectious Disease Epidemiology 3
CPH 613 Molecular Epidemiology, Cancer Prevention and Control 3
CPH 614 Managerial Epidemiology 3
CPH 615 Cancer Epidemiology 3
CPH 617 Environmental and Occupational Epidemiology 3
CPH 662 Public Health Response to Terrorism & Disasters 3
CPH 711 Chronic Disease Epidemiology 3
CPH 718 Special Topics: Decision-Making in Health and Medicine 3
CPH 718 Special Topics: Epidemiology of Healthcare Assoc Infections 3
CPH 718 Special Topics: Pharmacoepidemiology 3
CPH 718 Special Topics: Social Epidemiology 3
CPH 718 Special Topics: Women's Health Epidemiology 3
CPH 718 Special Topics: Maternal and Child Health Info and Data Sys 3

Additional electives that may be valuable
CPH 664 Biostatistics in Clinical Trials 3
CPH 631 Design & Analysis of Health Surveys 3
CPH 632 Mixed Models in Public Health 3
CPH 535 Databases & SAS Programming 3

Epidemiology Curriculum Overview

Students interested in pursuing a Master’s Degree in Public Health with a concentration in Epidemiology

I. All students pursuing a Master’s Degree in Public Health at the University of Kentucky must take each of the introductory courses in all five of the core areas of concentration and the required CPH 663 course, Public Health Practice and Administration. Students who wish to complete a concentration in Epidemiology are strongly encouraged to take both the introductory courses in Epidemiology and Biostatistics in their first semester.

II. Area courses required of any student, desiring to complete a concentration in Epidemiology are: Advanced Epidemiology, and Advanced Biostatistics
(Multivariate Analysis). Students concentrating in Epidemiology should take both Advanced Epidemiology and Advanced Biostatistics in their second semester.

III. Students pursuing a concentration in Epidemiology are required to take three elective courses in Epidemiology. Elective courses in Epidemiology are listed above. Students are encouraged to consider taking, Infectious Disease Epidemiology (CPH 612), Cancer Epidemiology (CPH 615), or Chronic Disease Epidemiology (CPH 711). There may be other courses offered by the Graduate School that could serve as an elective in Epidemiology. **However, students wishing to take a course as a substitute for one of the epidemiology electives must have the change approved in advance by the Department Chair.**

IV. Finally, students concentrating in Epidemiology will be expected to complete a *field practicum* and a *capstone experience*. This will include a project paper with an oral defense. **For students concentrating in Epidemiology, it may be difficult to complete all of the MPH core courses in the first two semesters. Therefore, students concentrating in Epidemiology who have completed the introductory and advanced courses in both Epidemiology and Biostatistics, and lack only one of the core courses, may request approval from their Departmental Chair to engage in a practicum field experience.**

V. On average, it will take full-time students **four semesters** and a summer session to complete the MPH degree with a concentration in Epidemiology.

Class hours are as follows for curriculum selected:

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A.</td>
<td>Core courses</td>
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</tr>
<tr>
<td>B.</td>
<td>Required course CPH 663</td>
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</tr>
<tr>
<td>C.</td>
<td>Required area courses in Epidemiology</td>
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</tr>
<tr>
<td>D.</td>
<td>Elective courses in Epidemiology</td>
<td>9 hours</td>
</tr>
<tr>
<td>E.</td>
<td>MPH research elective</td>
<td>3 hours</td>
</tr>
<tr>
<td>F.</td>
<td>Practicum Field Experience CPH 609</td>
<td>3 hours</td>
</tr>
<tr>
<td>G.</td>
<td>Capstone Course CPH 608</td>
<td>3 hours</td>
</tr>
<tr>
<td><strong>Minimum total hours</strong></td>
<td></td>
<td><strong>42 hours</strong></td>
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</table>
Environmental Health

Area Requirements

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>CPH 601</td>
<td>Environmental Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 620</td>
<td>Occupational Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 622</td>
<td>Toxic Agents and Their Implications in Public Health</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Seminar (each semester)</td>
<td>0</td>
</tr>
</tbody>
</table>

Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CE 555</td>
<td>Microbial Aspects of Environmental Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CPH 610</td>
<td>Injury Epidemiology and Control</td>
<td>3</td>
</tr>
<tr>
<td>CPH 614</td>
<td>Managerial Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>CPH 617</td>
<td>Occupational and Environmental Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>CPH 728-a</td>
<td>Special Topics in Occ/Env Health: Health of Agricultural Populations</td>
<td>3</td>
</tr>
<tr>
<td>CPH 728-b</td>
<td>Special Topics in Occ/Env Health: Advanced Agricultural Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 729</td>
<td>Independent Study in Occupational &amp; Environmental Health</td>
<td>1-3</td>
</tr>
<tr>
<td>CPH 790</td>
<td>Water Sanitation and Health</td>
<td>3</td>
</tr>
<tr>
<td>5XX TBA</td>
<td>The Health of Kentuckians (new, under development)</td>
<td>3</td>
</tr>
<tr>
<td>CPH 695</td>
<td>Public Health Practice through Service Learning</td>
<td>3</td>
</tr>
<tr>
<td>CPH 662</td>
<td>Public Health Response to Terrorism &amp; Disaster</td>
<td>3</td>
</tr>
<tr>
<td>ENT 561</td>
<td>Insects Affecting Human and Animal Health</td>
<td>3</td>
</tr>
<tr>
<td>BIO 582</td>
<td>Virology</td>
<td>3</td>
</tr>
<tr>
<td>TOX 509</td>
<td>Biochemical and Environmental Toxicology</td>
<td>3</td>
</tr>
<tr>
<td>TOX 680</td>
<td>Molecular Mechanisms in Toxicology</td>
<td>5</td>
</tr>
<tr>
<td>KHP 515</td>
<td>Anatomical and Mechanical Kinesiology</td>
<td>3</td>
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<tr>
<td>KHP 615</td>
<td>Biomechanics</td>
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<tr>
<td>KHP 618</td>
<td>Work Hardening &amp; Ergonomics</td>
<td>3</td>
</tr>
<tr>
<td>PHY 472G</td>
<td>Interaction of Radiation with Matter</td>
<td>3</td>
</tr>
<tr>
<td>RM 545</td>
<td>Radiation Hazards and Protection</td>
<td>3</td>
</tr>
</tbody>
</table>

Other electives are permissible. Check with your Academic Advisor.

Students focusing on Environmental Health must complete the area requirements listed above and choose, in consultation with their academic advisor and/or Department Chair, additional courses from the list of electives that will meet the student’s educational and career objectives.

Environmental Health Curriculum Overview

Students pursuing a MPH with a concentration in Environmental Health...

A. should take Environmental Health I (CPH 601) in their first semester.

B. should take CPH 620, “Occupational Health I”, in their second semester.
C. are required to take three elective courses (9 semester hours). Courses outside of the Department of Preventive Medicine and Environmental Health may complement students' academic and professional goals. Students wishing to take a course as a substitute for one of the environmental health electives must have the change approved in advance by the Department Chair.

D. attend Departmental seminars. Seminars in Occupational and Environmental health are offered 4 times each semester. Seminars are usually held at lunch time; attendance is expected; zero credit hours.

E. must complete a field practicum and a capstone experience. The capstone will include a project paper with an oral defense.

On average, full-time students need four semesters and a summer session to complete the MPH degree. For part-time students, completion varies from 3 ½ to 5 years.

Curriculum Summary:

The 5 MPH core courses:  
1. Epidemiology, CPH 605  
2. Biostatistics, STA 580  
3. Public Health Dis & Prevention, CPH 604  
4. Env Health, CPH 601  
5. Mgmt of Public Health Organizations, CPH 650  
Public Health Practice, CPH 663  
Research Methods, CPH 647#  
The two remaining EH Area Requirements  
1. Occ Health, CPH 620  
2. Toxic Agents, CPH 622  
EH elective  
EH elective  
EH elective  
Capstone, CPH 608  
Practicum Field Experience, CPH 609  

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>3</td>
</tr>
<tr>
<td>2.</td>
<td>3</td>
</tr>
<tr>
<td>3.</td>
<td>3</td>
</tr>
<tr>
<td>4.</td>
<td>3</td>
</tr>
<tr>
<td>5.</td>
<td>3</td>
</tr>
<tr>
<td>Public Health Practice</td>
<td>3</td>
</tr>
<tr>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>The two remaining EH Area Requirements</td>
<td>3</td>
</tr>
<tr>
<td>1. Occ Health</td>
<td>3</td>
</tr>
<tr>
<td>2. Toxic Agents</td>
<td>3</td>
</tr>
<tr>
<td>EH elective</td>
<td>3</td>
</tr>
<tr>
<td>EH elective</td>
<td>3</td>
</tr>
<tr>
<td>EH elective</td>
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</tr>
<tr>
<td>Capstone</td>
<td>3</td>
</tr>
<tr>
<td>Practicum Field Experience</td>
<td>3</td>
</tr>
</tbody>
</table>

Minimum total hours 42 hours

# Note: The research course, CPH 647, is offered in two sections, one taught by Health Behavior faculty and one taught by Health Services Management faculty. While either section of CPH 647 is acceptable, most EH students prefer the Health Behavior section.
### Year One

<table>
<thead>
<tr>
<th>Fall – 12 Credit Hours</th>
<th>Completed</th>
<th>Spring – 12 Credit Hours</th>
<th>Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 580 Biostatistics I</td>
<td>3</td>
<td>CPH 650 Mgt of PH Orgs</td>
<td>3</td>
</tr>
<tr>
<td>CPH 604 Public Health &amp; Dis Prev</td>
<td>3</td>
<td>CPH 620 Occ Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 663 Public Health Practice</td>
<td>3</td>
<td>CPH 605 Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>CPH 601 Env Health I</td>
<td>3</td>
<td>CPH 622 Toxic Agents</td>
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</tr>
<tr>
<td>EH Seminar</td>
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<td>EH Seminar</td>
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</table>

<table>
<thead>
<tr>
<th>Summer – 3 credit hours</th>
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<tbody>
<tr>
<td>CPH 609 Field Practicum</td>
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<table>
<thead>
<tr>
<th>Year Two</th>
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<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Fall – 12 Credit Hours</td>
<td>Completed</td>
<td>Spring – 3 Credit Hours</td>
<td>Completed</td>
</tr>
<tr>
<td>CPH 647 Research Methods</td>
<td>3</td>
<td>EH Elective:</td>
<td>3</td>
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<tr>
<td>CPH 608 Capstone</td>
<td>3</td>
<td>*Capstone Presentation &amp; Defense</td>
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</tr>
<tr>
<td>EH Elective:</td>
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<td>EH Seminar</td>
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</tr>
<tr>
<td>EH Elective:</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EH Seminar</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

You must enroll for at least 9 semester hours to be full time in the MPH program.

Students should recognize that the MPH is a professional degree program and not all learning is tied to formal coursework; learning in a professional degree program occurs in informal learning environments such as seminars, discussions with faculty, etc. Seminar is considered a professional expectation, at zero credit hours.

*The defendable copy of the Capstone must be delivered to your Capstone Committee no less than 10 days prior to the defense. Failure to meet this deadline will result in a rescheduling of your Capstone defense.*
Health Behavior

Area Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPH 643</td>
<td>Measuring Health Behavior</td>
<td>3</td>
</tr>
<tr>
<td>CPH 646</td>
<td>Health Behavior Theory and Application</td>
<td>3</td>
</tr>
<tr>
<td>CPH 647</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>CPH 648</td>
<td>Eliminating Racial and Ethnic Disparities</td>
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Selectives*

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPH 641</td>
<td>Public Health and Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>CPH 644</td>
<td>Rural Health Disparities</td>
<td>3</td>
</tr>
<tr>
<td>CPH 645</td>
<td>Food Systems and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 646</td>
<td>[Most sections, please refer to course catalog for specific offerings]</td>
<td>3</td>
</tr>
<tr>
<td>CPH 660</td>
<td>GIS Systems and Public Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 728</td>
<td>Health of Agricultural Populations</td>
<td>3</td>
</tr>
</tbody>
</table>

* In rare instances, courses taught outside the Department of Health Behavior may be more appropriate for students who have selected a specific topical area. To receive HB selective credit for any non-HB course within the CPH, students need to obtain approval from their academic advisor. To receive HB selective credit for any course outside of the CPH, students must obtain approval from both their advisor and the department chair.

Health Behavior Curriculum Overview

Students interested in pursuing a Master’s Degree in Public Health with a concentration in Health Behavior

I. All students pursuing a Master’s Degree in Public Health at the University of Kentucky must take each of the introductory courses in all five of the core areas of concentration, CPH 647 - Research Methods, and CPH 663 - Public Health Practice and Administration.

II. Students concentrating in Health Behavior are strongly encouraged to take the introductory course “Public Health and Disease Prevention” (CPH 604) in their first semester and CPH 643, “Measuring Health Behavior” in their second semester.

III. Most required courses in Health Behavior are taught only once per year.

IV. Students pursuing a concentration in Health Behavior are required to take two selective courses (6 semester hours) in Health Behavior. In rare instances, courses taught outside the Department of Health Behavior may be more appropriate for students who have selected a specific topical area. To receive HB selective credit for any non-HB course within the CPH, students need to obtain approval from their academic advisor. To receive HB selective credit for any course outside of the CPH, students must obtain approval from both their advisor and the department chair.

V. Students concentrating in Health Behavior will be expected to complete a field practicum and a capstone experience. The capstone will include a project paper with an oral defense. Students must sign up for the Health Behavior section of CPH 608.
VI. On average, it will take full-time students four semesters and a summer session to complete the MPH degree with a concentration in Health Behavior.

Class hours are as follows for curriculum selected:

A. Core courses 15 hours
B. Required course CPH 663 3 hours
C. Area Requirements in Health Behavior 12 hours
D. Two Selective courses 6 hours
E. Required Capstone Course CPH 608 - HB section 3 hours
F. Practicum Field Experience CPH 609 3 hours

**Minimum total hours** 42 hours

Sample HB Schedule:

<table>
<thead>
<tr>
<th>Year One</th>
<th></th>
<th>Year Two</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall – 12 Credit Hours</strong></td>
<td>Completed</td>
<td><strong>Spring – 12 Credit Hours</strong></td>
<td>Completed</td>
</tr>
<tr>
<td>CPH 601 Occupational and</td>
<td></td>
<td>CPH 643 Measuring Health</td>
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<tr>
<td>Environmental Health ●</td>
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<td>Behavior ●</td>
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<td>CPH 604 Pub Health &amp; Dis</td>
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<td>CPH 605 Epidemiology ●</td>
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<tr>
<td>Prevention ●</td>
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<tr>
<td>CPH 650 Management of PH Orgs●</td>
<td></td>
<td>STA 580 Biostatistics ●</td>
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<tr>
<td>CPH 663 Public Health Practice●</td>
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**Sample H B Schedule:**

<table>
<thead>
<tr>
<th>Year One</th>
<th></th>
<th>Year Two</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Summer – 3 credit hours</strong></td>
<td></td>
<td><strong>SUMMER – 3 credit hours</strong></td>
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<tr>
<td>CPH 609 Field Practicum ●</td>
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<td>CPH 609 Field Practicum ●</td>
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<th>Year Two</th>
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<tr>
<td>CPH 647 Research Methods for</td>
<td></td>
<td>CPH 608 Capstone Class, HB</td>
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<tr>
<td>Public Health●</td>
<td></td>
<td>section ●</td>
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<tr>
<td>CPH 642 Health Behavior Theory</td>
<td></td>
<td>CPH 648 Health &amp; Culture</td>
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<tr>
<td>and Application●</td>
<td></td>
<td>(Eliminating Racial and Ethnic</td>
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<tr>
<td></td>
<td></td>
<td>Disparities) ●</td>
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<tr>
<td>HB Selective:●</td>
<td>OR</td>
<td>HB Selective:●</td>
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<tr>
<td>CPH 660 GIS Systems &amp; Public</td>
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<td>See Spring year one for choices</td>
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<td>Health●</td>
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<tr>
<td>CPH 646 – Most Sections</td>
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<tr>
<td>CPH 728 Health of Agricultural</td>
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<tr>
<td>Population●</td>
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</table>
**Health Services Management***

**Area Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CPH 652</td>
<td>Health Finance</td>
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<tr>
<td>Or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HA 635</td>
<td>Management Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CPH 647</td>
<td>Research Methods</td>
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</table>

**Electives (4 courses/12 credit hours required)**

<table>
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<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
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<tr>
<td>CPH 614</td>
<td>Managerial Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>CPH 631</td>
<td>Design and Analysis of Health Surveys</td>
<td>3</td>
</tr>
<tr>
<td>CPH 644</td>
<td>Rural Health Disparities</td>
<td>3</td>
</tr>
<tr>
<td>CPH 646</td>
<td>Program Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>CPH 648</td>
<td>Health and Culture</td>
<td>3</td>
</tr>
<tr>
<td>CPH 653</td>
<td>Public Health Law and Policy</td>
<td>3</td>
</tr>
<tr>
<td>CPH 660</td>
<td>Geographical Information Systems in Public Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 662</td>
<td>Public Health Response to Terrorism and Disasters</td>
<td>3</td>
</tr>
<tr>
<td>CPH 728</td>
<td>Health of Agricultural Populations</td>
<td>3</td>
</tr>
<tr>
<td>CPH 740</td>
<td>Maternal and Child Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 751</td>
<td>Global Public Health</td>
<td>3</td>
</tr>
<tr>
<td>CPH 758</td>
<td>Special Topics: Public Health Policy and Governance</td>
<td>3</td>
</tr>
<tr>
<td>CPH 758</td>
<td>Special Topics: Social Marketing</td>
<td>3</td>
</tr>
<tr>
<td>CPH 779</td>
<td>Independent Studies in Health Services Management</td>
<td>1-3</td>
</tr>
<tr>
<td>HA 624</td>
<td>Health Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>HA 603</td>
<td>Legal Aspects of Health Administration</td>
<td>3</td>
</tr>
<tr>
<td>HA 636</td>
<td>Health Economics</td>
<td>3</td>
</tr>
<tr>
<td>HA 673</td>
<td>Health Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

*There may be other courses offered within or outside the College of Public Health that can serve as electives in HSM. Students wishing to take a course other than those listed must have the change approved in advance by the student’s advisor or department chair.

**Health Services Management Curriculum**

I. All students pursuing a Master of Public Health at the University of Kentucky must take each of the introductory courses in all five of the core areas of concentration and the required CPH 663 course, Public Health Practice and Administration. **Students who wish to complete a concentration in Health Services Management (HSM) are strongly encouraged to take the core course in HSM (CPH 650) and CPH 663 in their first semester.**

II. The area courses required of any student who plans to complete a concentration in HSM are CPH 655, *Public Health Finance and Accounting* (prerequisite is CPH 650) or HA 635, *Management Accounting*, and CPH 647, *Research Methods*. **Students concentrating in HSM should complete the HSM concentration course and the Research Methods course in their second or third semester.**
There is a separate section of the Research Methods course for HSM concentrators.

III. Students pursuing a concentration in HSM are required to take four elective courses (12 credit hours) in HSM. At least two elective courses are currently being offered each semester. Elective courses in HSM are listed above. Four courses offered in the Master of Health Administration program can fulfill elective requirements. They are HA 603: Health Law, HA 673: Health Policy, HA 624: Health Information Systems, and HA 636: Health Economics.

IV. Students concentrating in HSM will be expected to complete a *field practicum*. Normally, students must have completed all core courses before the practicum.

V. Students concentrating in HSM must complete a *capstone experience*. This will include a project paper and an oral defense. See the Capstone section of this manual for additional information.

VI. On average, it will take full-time students *four semesters* and a summer session to complete the MPH degree with a concentration in HSM.

Class hours are as follows for the HSM curriculum:

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>A</td>
<td>Core courses</td>
<td>15</td>
</tr>
<tr>
<td>B</td>
<td>Required course (CPH 663)</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Required area course in HSM (CPH 652/HA 635)</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>Required research methods course (CPH 647)</td>
<td>3</td>
</tr>
<tr>
<td>E</td>
<td>Elective courses in HSM</td>
<td>12</td>
</tr>
<tr>
<td>F</td>
<td>Practicum/Field Experience (CPH 609)</td>
<td>3</td>
</tr>
<tr>
<td>G</td>
<td>Capstone Course (CPH 608)</td>
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</tr>
<tr>
<td></td>
<td><strong>Minimum total hours</strong></td>
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</tbody>
</table>


Research and Special Topics Courses

In addition, students in any area of concentration may take the following courses to receive credit for working on research or special projects. These courses are variable credit, must be taken in sequence, and must be completed per contract with a supervising faculty member:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CPH 646</td>
<td>Special Topics in Health Behavior</td>
<td>1-3</td>
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<tr>
<td>CPH 649</td>
<td>Independent Studies in Health Behavior</td>
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<tr>
<td>CPH 718</td>
<td>Special Topics in Epidemiology</td>
<td>1-3</td>
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<tr>
<td>CPH 719</td>
<td>Independent Studies in Epidemiology</td>
<td>1-3</td>
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<tr>
<td>CPH 728</td>
<td>Special Topics in Occ/Env Health</td>
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<tr>
<td>CPH 729</td>
<td>Independent Studies in Occ/Env Health</td>
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<tr>
<td>CPH 738</td>
<td>Special Topics in Biostatistics</td>
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<tr>
<td>CPH 739</td>
<td>Independent Studies in Biostatistics</td>
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<tr>
<td>CPH 758</td>
<td>Special Topics in Hlth Svc Management</td>
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<tr>
<td>CPH 759</td>
<td>Independent Studies in Hlth Svc Management</td>
<td>1-3</td>
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<tr>
<td>CPH 778</td>
<td>Special Topics in Public Health</td>
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<tr>
<td>CPH 779</td>
<td>Independent Studies in Public Health</td>
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Other Public Health Courses*

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>CPH 695</td>
<td>Public Health Practice through Service Learning</td>
<td>3</td>
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*Students should consult with the Department Chair for course approval toward your area of concentration.
 MPH CORE COURSE DESCRIPTIONS

Required Core Courses

CPH 604 PUBLIC HEALTH AND DISEASE PREVENTION (3)
This course will demonstrate how changes in health behavior can and do impact population-level indicators of morbidity and mortality. Students will acquire the necessary tools to identify priority needs for health promotion, design community-based programs, and to implement and evaluate these programs. Students will be able to make clear linkages between health promotion practices and the overarching goals of public health. Selection and design of strategies will be achieved through an understanding of theory-based approaches that have been widely applied in health promotion research. Because theory and practice are driven by research, the course will also introduce students to examples of health promotion research (both methods and findings will be emphasized). Finally, the course will introduce students to various methods that can be used to evaluate health promotion programs.

STA 580 BIOSTATISTICS (3)
Primarily statistics in the biological, behavioral and social sciences, this course is an introduction to methods of analyzing data from experiments and surveys; the role of statistics in research, statistical concepts and models; probability and distribution functions; estimation; hypothesis testing; regression and correlation; analysis of single and multiple classification models; analysis of categorical data. Lecture, three hours/week; laboratory, two hours/week. Prereq: MA 109 or equivalent.

CPH 601 OCCUPATIONAL AND ENVIRONMENTAL HEALTH I (3)
This course is an overview of occupational and environmental health problems, toxicology related to the work place and other environments, industrial hygiene, safety, and other topics relevant to environmental health. Lecture, three hours/week. Prereq: PHA 603 and PGY 502 or equivalents, or consent of instructor.

CPH 605 EPIDEMIOLOGY (3)
In this course students are taught the principles and methods of epidemiologic investigations, research methodology, and statistical integration. Major topics include etiologic factors of disease and injury, the distribution of health problems within populations, levels of prevention, and the concept of risk. The design of retrospective, cross-sectional and prospective studies are examined to illustrate odds ratio, relative risk, life tables, and person-years. Students are required to complete and submit a research proposal, present a topic paper, and serve as a co-facilitator for an article discussion.

CPH 650 MANAGEMENT OF PUBLIC HEALTH ORGANIZATIONS (3)
This course teaches the theories and practice of administration as they are applied in public health settings. It addresses knowledge and applications of the functions of public health management and their relationship to organizational effectiveness.
Required Courses

**CPH 608 CAPSTONE (3)**

To be successful in the MPH degree program and the profession, students are expected to demonstrate excellence in communication skills both orally and in writing. The “manuscript” format for the capstone project is intended to familiarize students with the rigors of preparing manuscripts for professional journals. This course provides course credit for students who successfully complete the MPH capstone project and oral final examination.

This course is designed to enable each Master of Public Health (MPH) student to complete a culminating experience as the final requirement for the MPH degree. The culminating experience is the Graduate School Plan B, non-thesis option “Capstone Project.” The capstone project represents the culmination of a major practice or research activity and consists of a formal written manuscript that will become part of the College of Public Health archives, a formal public presentation open to the College’s students and faculty, and an oral examination consisting of questions by the student’s capstone committee. The project is an opportunity to integrate coursework and field experience into a singular applied project that demonstrates proficiency. The project must be a well-reasoned contribution in a discipline of public health in the student’s chosen field of concentration(s) and reflect specific in-depth interests and career goals of the student.

**CPH 609 PUBLIC HEALTH PRACTICUM (3)**

The public health practicum is designed as an integrative experience in the workplace. The practicum is an opportunity to apply classroom theories and methods under the guidance of an experienced public health practitioner with faculty oversight.

**CPH 647 RESEARCH METHODS FOR PUBLIC HEALTH (3)**

This course provides the student with basic knowledge about the design and analysis of research in the field of health promotion. The theory, design, applications, and analytic strategies used for various types of research are presented in a sequential format. Goals of the course include: 1) gaining the ability to critically evaluate research in health promotion practice, 2) achieving competence in research methodology, and 3) understanding the conceptual application of analytic techniques to data.

**CPH 663 PUBLIC HEALTH PRACTICE AND ADMINISTRATION (3)**

Emphasizes the practical application of the principles of health care organization to public health at the national, state, and local levels. Course objectives reflect an overview of the principles of managing a public health organization: legal basis of public health, organization and delivery of public health services, health planning and community needs assessment, epidemiological approach to diseases, methods for chronic and infectious disease control, future changes that can impact the provision of public health services, etc.
CONCENTRATION AREA COURSE DESCRIPTIONS

Biostatistics

**CPH 535 DATABASE AND SAS PROGRAMMING (3)**
Teaches the construction and maintenance of databases with applications to public health and how to program in SAS, the leading statistical analysis system. SAS skills include report writing, MACRO writing, and programming using SAS Intranet.

**CPH 630 BIOSTATISTICS II (3)**
Emphasizes statistical methods used in public health studies. This includes receiver operator curves, multiple regressions, logistic regression, confounding and stratification, the Mantel-Haenzel procedure, and the Cox proportional hazards model.

**CPH 631 DESIGN AND ANALYSIS OF HEALTH SURVEYS (3)**
Design and analysis issues associated with well-known national health surveys, including reliability and validity of measurements, instrument validation, sampling designs, weighting of responses, and multiple imputations. Students will learn how to use statistical software to analyze data from complex survey designs.

**CPH 632 MIXED MODELS IN PUBLIC HEALTH (3)**
Presents statistical techniques for analyzing those longitudinal studies in public health that involve repeated measures and random effects. This course will cover multilevel regression models, Poisson regression models, logistic models with random effects, crossover experiments, and nonlinear pharmacokinetic models.

**CPH 636 DATA MINING IN PUBLIC HEALTH (3)**
This course familiarizes students with statistical techniques for and practical issues associated with the exploration of large public health data sets. Emphases are placed on the development of models from such data sets and on the effective communication of one's findings. Prerequisites: STA 570/STA 580 and CPH 535, or consent of instructor.

**CPH 664 DESIGN AND ANALYSIS OF CLINICAL TRIALS (3)**
An overview of clinical research design and analysis. Phase I-IV clinical trials, parallel groups design crossover trials, and group sequential trails. Sample size determination and interim stopping rules. Discussion of randomization, treatment masking, confounding, stratification, multiple endpoints, surrogate endpoints and random effects, prognostic factor analysis, and meta analysis.

**CPH 712 ADVANCED EPIDEMIOLOGY (3)**
Provides an in-dept understanding of the evidence needed to show causal relationships and epidemiologic theories, concepts and tools used to establish causal relationships.
**BST 639 COMPUTING TOOLS (3)**
Introduction to statistical and epidemiologic software technologies commonly used for the collection, management, and analysis of data. It is designed to prepare first year students for further coursework and dissertation research.

**BST 675 BIOMETRICS I (4)**
This course, the first of a two-semester sequence in biometrics, introduces probability, discrete random variables, continuous random variables, and sampling distributions.

**BST 676 BIOMETRICS II (4)**
This course, the second of a two-semester sequence in biometrics, introduces techniques for constructing and evaluating point estimators, hypothesis testing procedures, and interval estimators.

**BST 760 ADVANCED REGRESSION ANALYSIS (3)**
This course provides an introduction to theoretical methods and applications of linear and generalized linear models. Regression methods for normally distributed outcomes will provide a discussion of experimental design, design matrices, and modes of parametric inference for the linear model. Students will learn to apply these concepts in sophisticated data analysis where they will implement tools for model building and selection, variable selection, and handling categorical predictors, confounders and interactions. Additionally, students will learn polynomial regression and flexible alternatives such as weighted least squares and robust, ridge and nonparametric regression. Regression methods for non-normal outcomes (focusing on binomial and count data) will be covered in detail, providing students with foundational tools for understanding and implementing generalized linear models that are commonly used to analyze epidemiologic and public health data from various study designs including but not limited to cohort, case-control, and clinical trials.

**BST 761 TIME TO EVENT ANALYSIS (3)**

**BST 762 LONGITUDINAL DATA ANALYSIS (3)**
This course presents statistical techniques for analyzing longitudinal studies and repeated measures experiments that occur frequently in public health, clinical trials, and outcomes research. This course will cover linear mixed models, generalized linear mixed models and an introduction to nonlinear models as they apply to the analysis of correlated data.

**BST 763 ANALYSIS OF CATEGORICAL DATA (3)**
STA 673 DISTRIBUTION FREE STATISTICAL INFERENCE (2)
Inference for population quantiles, sign tests, Wilcoxon tests, Kruskal-Wallis and Friedman tests, Kendall and Spearman rank correlation. Goodness-of-fit tests for completely and partially specified distributions, rxc contingency tables, McNemar and Cochran's Q tests for matched proportions; three dimensional tables and tests of partial and multiple associations. Lecture, three hours per week; laboratory, two hours per week for seven and a half weeks. Offered the first or second half of each semester.

STA 677 APPLIED MULTIVARIATE METHODS (3)
Survey of multivariate statistical techniques. The multivariate normal distribution; the general linear model; general procedures for parameter estimation and hypothesis testing in the multivariate case; Hotelling's $T^2$, multivariate analysis of variance and covariance; structural models for the covariance matrix; utilization of existing computer programs. Prereq: STA 671 and 672, and a knowledge of linear algebra equivalent to MA 262.

INF 520 BIOINFORMATICS (3)
An introduction to computer analysis of macromolecular structure information. This course describes how to access, process, and interpret structural information regarding biological macromolecules as a guide to experiments in biology. Prereq: BIO 315 or BIO 304 or BCH 401 or BCH 501 or BCH 502 or BIO 510 or consent of instructor.

Epidemiology

CPH 610 INJURY EPIDEMIOLOGY (3)
Describes the distribution and determinants for traumatic injury and poisonings, including both intentional and unintentional events. Topics include: sources of data, methodological approaches to studying injuries, evaluation of injury interventions, and the link between epidemiology and public health policy impacting injuries.

CPH 612 INFECTIOUS DISEASE EPIDEMIOLOGY (3)
Emphasizes the epidemiological and microbiological methods used to study infectious diseases including new, emerging, and re-emerging diseases. Include are the history, epidemiologic concepts and tools needed to understand and investigate the maintenance, transmission, and effects of infectious disease in human populations.

CPH 613 MOLECULAR EPIDEMIOLOGY, CANCER PREVENTION AND CONTROL (3)
This course consists of didactic lectures, journal clubs, and small group round table discussions related to the principles underlying biomarker discovery and development for cancer prevention and control. The overarching goal of this course will be to assess how biomarkers are developed and used for the risk assessment, early detection, diagnosis, prognosis, and theragnosis of cancer.

CPH 614 MANAGERIAL EPIDEMIOLOGY (3)
Reviews the fundamental principles of epidemiology and teaches students how to apply these principles to the management of health service organizations.
CPH 615 CANCER EPIDEMIOLOGY (3)
This course applies and integrates the principles and tools of epidemiology to the study of cancer. The course includes discussion of the burden of various kinds of cancer across the United States and the world by age, gender, and race/ethnicity, the underlying biology behind the development of cancer in humans, cancer surveillance, the epidemiology of various kinds of cancer by category of major risk factors such as human behavior (e.g. smoking and alcohol use), endogenous/exogenous hormones, viruses, environmental/occupational, and diet, and sources of data and methods for evaluating cancer screening, measuring the impact of risk factors, determining the incidence of cancer and cancer clusters, measuring patterns of care, and understanding the determinants of survival.

CPH 617 ENVIRONMENTAL/OCCUPATIONAL EPIDEMIOLOGY (3)
Provides students with an understanding of occupational and environmental exposures and their associations with specific health effects, and with the application of epidemiologic concepts and methods to describe and analyze these associations. Combines lectures on exposure assessment, study design and methodological issues, as well as discussion and presentation of topics focused on specific outcomes and exposures.

CPH 662 PUBLIC HEALTH RESPONSE TO TERRORISM (3)
Focuses on public health concepts, history, methods, planning and response preparedness in response to a Weapons of Mass Destruction (WMD) terrorist attack, in both the nation and Commonwealth of Kentucky. Will discuss how public health methods can be applied to response planning and preparedness for such a bioterroristic WMD attack and improve the public health and medical infrastructure for response to natural disasters. Public health response includes surveillance of disease and laboratory reports for evidence of WMD attack, as well as epidemiological review of suspicious cases of illness potentially related to biological or chemical weapons.

CPH 630 BIOSTATISTICS II (3)
Students will learn statistical methods used in public health studies. This includes receiver operator curves, multiple regressions, logistic regression, confounding and stratification, the Mantel-Haenzel procedure, and the Cox proportional hazards model.

CPH 711 CHRONIC DISEASE EPIDEMIOLOGY (3)
Provides students with an overview of the risk factors associated with the most common chronic diseases, data sources available about these diseases and epidemiologic theories, concepts and tools associated with these diseases.

CPH 712 ADVANCED EPIDEMIOLOGY (3)
Provides an in-depth understanding of the evidence needed to show causal relationships and epidemiologic theories, concepts and tools used to establish causal relationships.

CPH 718 SPECIAL TOPICS IN EPIDEMIOLOGY: DECISION-MAKING IN HEALTH AND MEDICINE (3)
This course applies decision science theory to healthcare decision making. It is intended for epidemiologists, managers, and health behaviorists who want to understand the process of
rational decision-making. Topics include (1) managing uncertainty, (2) treatment decisions, (3) valuing healthcare outcomes, (4) diagnostic test decisions, (5) prevention and screening, (6) tests with multiple outcomes, (7) cost-effectiveness, cost-benefit, and cost-utility analysis, and (8) modeling events that reoccur over time.

CPH 718 SPECIAL TOPICS IN EPIDEMIOLOGY: PHARMACOEPIEDEMOLOGY (3)
Pharmacoepidemiology is the study of the use of and the effects of medications in large numbers of people. This specialty combines information from Clinical Pharmacology (the study of effects of drugs in humans) and Epidemiology (the use and effects of exposure in large populations) to form a unique area of study. Scientists that are interested in the patterns medications are used and their effects, whether beneficial or harmful, incorporate Pharmacoepidemiology theory and applications into their studies. This specialty is useful in understanding published literature that involves medication use or can be used when working within the pharmaceutical industry and government affairs. This course will provide an overview of the field of pharmacoepidemiology and its relationship to health care research. Various topics including methodology and analytical issues relevant to the conduct of pharmacoepidemiologic research will be covered. Time will also be spent reviewing existing papers in the field of pharmacoepidemiology.

CPH 718 SPECIAL TOPICS IN EPIDEMIOLOGY: SOCIAL EPIDEMIOLOGY (3)
This course provides students with an introduction to major topics in the substantive area of social epidemiology. The class is organized around key concepts and methods in social epidemiology and key epidemiological studies. The course will cover research studies examining how social variables are measured, theories of causality, and analytic procedures used. Students will be expected to critically read the scientific literature, form scientifically-based critiques, reach empirically and theoretically grounded conclusions, and actively participate in class discussions. A class goal is to expose students to several of the classic readings in psychosocial and social epidemiology. This course is intended for persons who have an interest in research and some background in epidemiology and/or behavioral sciences. Background in the social sciences may extend from little or none to the doctoral level.

CPH 718 SPECIAL TOPICS IN EPIDEMIOLOGY: WOMEN’S HEALTH EPIDEMIOLOGY (3)
This course will cover women’s health topics including reproductive anatomy and physiology, contraception, abortion, sexually transmitted infections, adverse pregnancy outcomes, environmental exposures and reproductive health, infertility and new assisted technologies, menopause, gynecologic cancers, maternal mortality and violence against women. Our focus will be both local and global. Upon completion of this course, students will be able to do the following: 1. Describe the range of health challenges unique to women in the world, U.S., and Kentucky. 2. Integrate the basic principles of epidemiology and public health practice with the study of women’s health. 3. Conduct a systematic review on a selected women’s health challenge.

CPH 718 SPECIAL TOPICS IN EPIDEMIOLOGY: EPIDEMIOLOGY OF HEALTHCARE ASSOC INFECTIONS (3)
This course will focus on the epidemiology, history, methods, and ancillary laboratory tools used in the study and control of hospital acquired (nosocomial) infectious diseases, including discussions of key concepts and theory, basic types of epidemiological investigations and study designs, distinctive problems associated with specific risk factors. The course will discuss how epidemiological methods can be applied to the study, investigation, prevention, and control of infectious diseases acquired in the health care setting. In addition, the application of epidemiologic method to the study and evaluation of non-infectious health care related adverse
events will be described and discussed. Both health care infections and non-infectious adverse events will be discussed as components of patient safety and the quality of care.

**CPH 718 SPECIAL TOPICS IN EPIDEMIOLOGY: MATERNAL AND CHILD HEALTH INFORMATION AND DATA SYSTEMS (3)**
This course will equip participants with basic skills in identifying, accessing, interpreting and utilizing maternal and child health (MCH) data systems at both the national and state-level. Participants will learn how to utilize the Maternal and Child Health Bureau’s Title V Information System as well as other federal data and information systems from the Centers for Disease Control and Prevention, the National Center for Health Statistics and the U.S. Census. Important community and state-level MCH data systems, as well as non-profit data sources, will be presented.

**Environmental Health**

**CPH 601 ENVIRONMENTAL HEALTH I (3)**
An overview of occupational and environmental health problems, toxicology related to the work place and other environments, industrial hygiene, safety, and other topics relevant to environmental health. Prereq: Undergraduate chemistry and biology, or permission of instructor.

**CPH 610 INJURY EPIDEMIOLOGY (3)**
Describes the distribution and determinants for traumatic injury and poisonings, including both intentional and unintentional events. Topics include: sources of data, methodological approaches to studying injuries, evaluation of injury interventions, and the link between epidemiology and public health policy impacting injuries.

**CPH 614 MANAGERIAL EPIDEMIOLOGY (3)**
Reviews the fundamental principles of epidemiology and teaches students how to apply these principles to the management of health service organizations.

**CPH 617 ENVIRONMENTAL/OCCUPATIONAL EPIDEMIOLOGY (3)**
Provides students with an understanding of occupational and environmental exposures and their associations with specific health effects, and with the application of epidemiologic concepts and methods to describe and analyze these associations. Combines lectures on exposure assessment, study design and methodological issues, as well as discussion and presentation of topics focused on specific outcomes and exposures.

**CPH 620 OCCUPATIONAL HEALTH II (3)**
Addresses advanced theories and practices of identifying, assessing, and controlling occupational and environmental hazards that may adversely affect the health of communities and working populations. The course emphasizes harmful effects of non-chemical hazards, such as radiation, noise, hypoxia, and physical agents that lead to morbidity and mortality. However, evaluation and control measures will cover many types of hazardous exposures, including those from chemical exposures. Prerequisite: CPH 601.
CPH 622 TOXIC AGENTS AND THEIR IMPLICATIONS IN PUBLIC HEALTH (0)
This course provides an overview of chemical agents within the environment, their interactions with the human organism, and resultant public health implications. The goal of this course is to utilize toxicological information to create, understand, and explain control strategies that protect and improve public health. Prerequisite: CPH 601.

CPH 662 PUBLIC HEALTH RESPONSE TO TERRORISM (3)
Focuses on public health concepts, history, methods, and planning and response preparedness in response to a Weapons of Mass Destruction (WMD) terrorist attack, in both the nation and Commonwealth of Kentucky. Will discuss how public health methods can be applied to response planning and preparedness for such a bioterroristic WMD attack and improve the public health and medical infrastructure for response to natural disasters. Public health response includes surveillance of disease and laboratory reports for evidence of WMD attack, as well as epidemiological review of suspicious cases of illness potentially related to biological or chemical weapons.

CPH 695 PUBLIC HEALTH PRACTICE THROUGH SERVICE LEARNING (3)
Provides students the opportunity to gain first hand public health experience by participating in projects in a community setting, completing a project, and participating in a series of seminars.

CPH 728 SPECIAL TOPICS IN OCCUPATIONAL/ENVIRONMENTAL HEALTH: HEALTH OF AGRICULTURAL POPULATIONS (3)
An introduction to the unique threats and hazards that impact the health, safety and productivity of farmers, members of farm families, hired farm workers, and others who live or work in agricultural environments, such as crop and livestock production, timber production and commercial fishing. The course will cover the history of the field and issues current to the population. Emphasis will be given to special populations in agricultural such as youth, the elderly, migrant farm workers, and females, along with the traditional farmer. Other topics include health promotion strategies, epidemiology of farm risks, farm demographics, farm mental health, and current research to improve health and reduce injuries in agricultural populations.

CPH 728 SPECIAL TOPICS IN OCCUPATIONAL/ENVIRONMENTAL HEALTH: ADVANCED AGRICULTURAL HEALTH (3)
This advanced course is designed for students with a special interest in agricultural illness and injuries. Agricultural health and safety experts will present an in-depth review of health problems associated with agricultural populations in rural America and elsewhere, including farmers, member of farm families, hired farm workers and others working in timber, logging and fishing. Environmental and occupational disease and injury etiology, prevention and control measures will be reviewed. During the second half of the semester, students will visit a working farm accompanied by an agricultural health and safety expert to conduct a sire assessment. Prerequisite: Health of Agricultural Populations.

CPH 790 WATER, SANITATION, AND HEALTH (3)
Concentrates on waterborne diseases. The content will include prokaryote structure, energetics, and survival strategies; emerging and classic waterborne and water-related pathogens; animal vectors; fate of pathogens in the environment; and indicator, index, and surrogate pathogen organisms.
ENT 561 INSECTS AFFECTING HUMAN AND ANIMAL HEALTH (3)
Discussion of arthropod parasites and disease vectors. Topics include an overview of disease transmission and public health, epidemiology, vector biology, important arthropod groups and their control. Prereq: One year of biology. (Same as BIO 561.)

BIO 582 VIROLOGY (3)
Physical, chemical and biological properties of viruses. Modes of replication and control of gene product formation displayed by representative plant, animal, and bacterial viruses. Prereq: BIO 304 and biochemistry or equivalent strongly recommended, or consent of instructor.

TOX 509 BIOCHEMICAL AND ENVIRONMENTAL TOXICOLOGY (3)
Presentation of basic and advanced concepts to provide an integrated description of toxicology, its scope, the unique application of principles that characterize it as a science, and its professional practice. Emphases will include the influence of federal regulations on the practice of toxicology. Prereq: BCH 501 and PHA 522 or equivalents or consent of instructor.

TOX 680 MOLECULAR MECHANISM IN TOXICOLOGY (5)
An intensive examination of the chemistry and action of substances which adversely affect living systems, and consideration of means of lessening their impact on man and the environment. Prerequisites: TOX 509 or consent of Director of Graduate Studies in Tox.

KHP 515 ANATOMICAL AND MECHANICAL KINESIOLOGY (3)
A quantitative and qualitative study of human motion as it relates to locomotor and physical education activities. Lecture, two hours; laboratory, two hours. Prereq: ANA 206, PGY 206, or equivalent and consent of instructor.

KHP 615 BIOMECHANICS (3)
A research oriented, qualitative and quantitative investigation into the fundamental human movement patterns of ambulation, jumping, throwing, and striking. Lecture, two hours; laboratory, two hours. Prereq: An introductory course in physics, KHP 515, and consent of instructor.

KHP 618 WORK HARDENING & ERGONOMICS (3)
A study of the basic areas of ergonomics including: anthropometric principles, repetitive motion disorders, low back pain, design of manual handling tasks, and job evaluation tools. The class will also discuss important government documents such as the NOISH Lifting equation and the Americans with Disabilities Act. Prereq: Consent of instructor.

PHY 472G INTERACTION OF RADIATION WITH MATTER (3)
Basic aspects of the interaction of ionizing radiation with matter. Bohr atom, atomic spectra, radioactivity, energetics of decay. Sources of radiation, penetration of charged particles, electromagnetic radiation, and neutrons through matter; excitation and ionization processes; selected nuclear reactions; basic radiation detection and dosimetry. Prereq: PHY 213 or 232; MA 114 (may be taken concurrently); or equivalent. (Same as RM 472G.)

RM 545 RADIATION HAZARDS AND PROTECTION (3)
An analysis of common radiation hazards encountered in medicine, research, industry, and the environment. Regulations and procedures for the safe use of ionizing and non-ionizing radiations. Lecture, two hours; laboratory, two and one-half hours. Prereq: PHY/RM 472G or consent of instructor. (Same as PHY/RAS 545).
Health Behavior

**CPH 641 PUBLIC HEALTH AND ANTHROPOLOGY (3)**
This seminar explores the contributions that anthropology, the academic field that focuses on the study of human culture, can make towards a better understanding of health behavior in the context of public health. Culture, the central focus of study of the field of anthropology, is often a perplexing factor confronting public health researchers and practitioners. We will consider how the perspectives and tools developed in anthropology can be utilized in public health to help understand culture, both in the United States and in developing countries.

**CPH 642 ECOLOGICAL INFLUENCES ON HEALTH BEHAVIOR (3)**
This course will explore the social and natural ecological forces that shape health behavior. It will focus on the concept that individual health decisions are made in a particular context, and that altering that context can reshape those decisions. Students will be exposed to both theoretical and case study material comparing individual/educational approaches to public health with population-based approaches utilizing environmental change. The course will also cover the philosophical and ethical questions inherent in the choices between individual and population approaches to public health.

**CPH 643 MEASURING HEALTH BEHAVIOR (3)**
This course focuses on measurement, the key component of research. Measurement encompasses a broad range of research concerns and programming invariably involves evaluation of whether an intervention works. Proper evaluation, however, begins before an intervention starts. In some cases existing data are used to define a health problem. In other cases formative research seeks baseline data to define the prevalence and characteristics of a population and its members’ behaviors. Prior to intervention implementation, researchers and programmers need to first define what outcomes they seek and a logical path of data collection to test for such outcomes. Within this rather elegant model are a host of issues that arise when working with complex human beings. A client’s cultural background, the ethics of data-gathering, or even the gender of the interviewer can influence findings. This is ultimately a course about how rather than what. Public health practitioners measure many types of people and health behaviors. This course delves into how we can measure human behavior responsibly and effectively.

**CPH 644 RURAL HEALTH DISPARITIES (3)**
This course will provide professionals working in or planning to work in leadership roles in the Commonwealth with a comprehensive overview of issues pertaining to health disparities of rural populations, particularly in Kentucky, by examining current programs and policies, relevant literature, and both quantitative and qualitative research pertaining to the health and well-being of rural populations. An overarching theme of this course is that rural Kentuckians, as a part of the fabric of America, are rich in culture, tradition, history and resilience who have earned the right to high quality health care and access to vital and responsive health services and systems.

**CPH 645 FOOD SYSTEMS, MALNUTRITION AND PUBLIC HEALTH (3)**
This seminar course explores key issues in public health and malnutrition through a food systems perspective. The class is based on the premise that malnutrition – both under-nutrition and over-nutrition – is related to all facets of a highly interconnected food system consisting of food production, food processing and distribution, and food consumption. Understanding how the various parts of the food system interact is essential in the design of effective public health policy and projects to combat malnutrition in its various forms.
CPH 646 SPECIAL TOPICS IN HEALTH BEHAVIOR: PROGRAM EVALUATION (3)
This course provides an overview of program evaluation theory and methods and their application to public health programs. Emphasis is on developing skills in selecting and applying evaluation methods at all stages in program development, implementation and delivery in order to provide useful information and in-depth knowledge for monitoring and improvement of public health programs. Course Prerequisites: CPH 604 Public Health and Disease Prevention and either CPH 605 Epidemiology, CPH 647 Research Methods, or consent of the instructor.

CPH 647 RESEARCH METHODS FOR PUBLIC HEALTH (3)
This course provides the student with basic knowledge about the design and analysis of research in the field of health promotion. The theory, design, applications, and analytic strategies used for various types of research are presented in a sequential format. Goals of the course include: 1) gaining the ability to critically evaluate research in health promotion practice, 2) achieving competence in research methodology, and 3) understanding the conceptual application of analytic techniques to data.

CPH 648 HEALTH AND CULTURE (3)
This course is designed to facilitate a deep understanding of the role of one’s culture in influencing the adaptation of health attitudes, practices, and behaviors. This course is required because it is a philosophy of the department that health educators involved in advocacy, policy, prevention, promotion and program evaluation, should be trained to understand how and why complex differences in and among diverse populations frame population expectations regarding personal and community. As a part of this course, students will be required to examine their own cultural biases and strengths in an atmosphere of non-judgment, respect, and trust. An additional focus will be placed on health status, current trends, and health indicators for special populations identified through the Kentucky Health Objectives for the year 2003, as reported by the Kentucky Department for Public Health.

CPH 660 GEOGRAPHICAL INFORMATION SYSTEMS AND PUBLIC HEALTH (3)
This course will introduce students to the ArcView Geographic Information System (GIS) to map and spatially analyze public health data. While GIS has numerous applications for many disciplines, this course will specifically focus on its uses in public health. Beyond use of GIS for cartography, this course will also examine issues and methods of analyzing the processes creating health patterns. The versatility of GIS in a public health setting will be examined and will include exercises looking GIS applications involving health marketing, demography, epidemiology, and health care systems. Public health workers who utilize GIS in their research and work have been invited to the class to discuss their ‘real world’ experiences. Students will be expected to complete a research project involving GIS. It is hoped that this project will compliment or supplement their capstone. Other issues covered in the class will be the ethics of GIS, manipulation of data; sources of data, and understanding some commonly used public health datasets such as the YRBS, BRFSS, etc. The course will also provide an introduction to HTML coding to create simple websites for publishing public health information and maps on the Internet.

CPH 740 MATERNAL AND CHILD HEALTH (3)
An introduction to MCH-related issues in the U.S. and Kentucky and includes a focus on policies and programs for women, children and adolescents. U.S. and Kentucky data sources and uses of data that impact maternal and child health are examined. Students are given the opportunity to discuss and examine the history and organization of MCH related services in the U.S. and
review a broad array of current issues central to maternal and child health, including poverty, racial and ethnic disparities in health, the organization and financing of health services, analyze the ways in which political context in the U.S. affects the health and well-being of families, process in which knowledge, strategic planning, and politics will combine to create public health policy to address these issues in the context of current programming.

Health Services Management

**CPH 614 MANAGERIAL EPIDEMIOLOGY (3)**
Reviews the fundamental principles of epidemiology and teaches students how to apply these principles to the management of health service organizations.

**CPH 631 DESIGN AND ANALYSIS OF HEALTH SURVEYS (3)**
Design and analysis issues associated with well known national health surveys, including reliability and validity of measurements, instrument validation, sampling designs, weighting of responses, and multiple imputations. Students will learn how to use statistical software to analyze data from complex survey designs.

**CPH 644 RURAL HEALTH DISPARITIES (3)**
This course will provide professionals working in or planning to work in leadership roles in the Commonwealth with a comprehensive overview of issues pertaining to health disparities of rural populations, particularly in Kentucky, by examining current programs and policies, relevant literature, and both quantitative and qualitative research pertaining to the health and well-being of rural populations. An overarching theme of this course is that rural Kentuckians, as a part of the fabric of America, are rich in culture, tradition, history and resilience who have earned the right to high quality health care and access to vital and responsive health services and systems.

**CPH 646 SPECIAL TOPICS: PROGRAM EVALUATION (3)**
This course provides an overview of program evaluation theory and methods and their application to public health programs. Emphasis is on developing skills in selecting and applying evaluation methods at all stages in program development, implementation and delivery in order to provide useful information and in-depth knowledge for monitoring and improvement of public health programs. Course Prerequisites: CPH 604 Public Health and Disease Prevention and either CPH 605 Epidemiology, CPH 647 Research Methods, or consent of the instructor.

**CPH 647 RESEARCH METHODS FOR PUBLIC HEALTH (3)**
This course provides the student with basic knowledge about the design and analysis of research in the field of health promotion. The theory, design, applications, and analytic strategies used for various types of research are presented in a sequential format. Goals of the course include: 1) gaining the ability to critically evaluate research in health promotion practice, 2) achieving competence in research methodology, and 3) understanding the conceptual application of analytic techniques to data.

**CPH 648 HEALTH AND CULTURE (3)**
This course is designed to facilitate a deep understanding of the role of one’s culture in influencing the adaptation of health attitudes, practices, and behaviors. This course is required
because it is a philosophy of the department that health educators involved in advocacy, policy, prevention, promotion and program evaluation, should be trained to understand how and why complex differences in and among diverse populations frame population expectations regarding personal and community. As a part of this course, students will be required to examine their own cultural biases and strengths in an atmosphere of non-judgment, respect, and trust. An additional focus will be placed on health status, current trends, and health indicators for special populations identified through the Kentucky Health Objectives for the year 2003, as reported by the Kentucky Department for Public Health.

CPH 652 PUBLIC HEALTH FINANCE AND ACCOUNTING (3)
Introduces the use of management accounting techniques to decision making in health care organizations. Lectures, problems and cases will be used to provide an opportunity to focus on the various types of health care providers.

CPH 653 PUBLIC HEALTH LAW AND POLICY (3)
Introductory course for nonlawyers in selected aspects of the law and policy development related to public health.

CPH 660 GEOGRAPHICAL INFORMATION SYSTEMS IN PUBLIC HEALTH (3)
This course will introduce students to the ArcView Geographic Information System (GIS) to map and spatially analyze public health data. While GIS has numerous applications for many disciplines, this course will specifically focus on its uses in public health. Beyond use of GIS for cartography, this course will also examine issues and methods of analyzing the processes creating health patterns. The versatility of GIS in a public health setting will be examined and will include exercises looking at GIS applications involving health marketing, demography, epidemiology, and health care systems.

CPH 662 PUBLIC HEALTH RESPONSE TO TERRORISM (3)
Focuses on public health concepts, history, methods, and planning and response preparedness in response to a Weapons of Mass Destruction (WMD) terrorist attack, in both the nation and Commonwealth of Kentucky. Will discuss how public health methods can be applied to response planning and preparedness for such a bioterroristic WMD attack and improve the public health and medical infrastructure for response to natural disasters. Public health response includes surveillance of disease and laboratory reports for evidence of WMD attack, as well as epidemiological review of suspicious cases of illness potentially related to biological or chemical weapons.

CPH 663 PUBLIC HEALTH PRACTICE AND ADMINISTRATION (3)
Emphasizes the practical application of the principles of health care organization to public health at the national, state, and local levels. Course objectives reflect an overview of the principles of managing a public health organization: legal basis of public health, organization and delivery of public health services, health planning and community needs assessment, epidemiological approach to diseases, methods for chronic and infectious disease control, future changes that can impact the provision of public health services, etc.
CPH 728 SPECIAL TOPICS IN OCCUPATIONAL/ENVIRONMENTAL HEALTH: HEALTH OF AGRICULTURAL POPULATIONS (3)
An introduction to the unique threats and hazards that impact the health, safety and productivity of farmers, members of farm families, hired farm workers, and others who live or work in agricultural environments, such as crop and livestock production, timber production and commercial fishing. The course will cover the history of the field and issues current to the population. Emphasis will be given to special populations in agricultural such as youth, the elderly, migrant farm workers, and females, along with the traditional farmer. Other topics include health promotion strategies, epidemiology of farm risks, farm demographics, farm mental health, and current research to improve health and reduce injuries in agricultural populations.

CPH 740 MATERNAL AND CHILD HEALTH (3)
An introduction to MCH-related issues in the U.S. and Kentucky and includes a focus on policies and programs for women, children and adolescents. U.S. and Kentucky data sources and uses of data that impact maternal and child health are examined. Students are given the opportunity to discuss and examine the history and organization of MCH related services in the U.S. and review a broad array of current issues central to maternal and child health, including poverty, racial and ethnic disparities in health, the organization and financing of health services, analyze the ways in which political context in the U.S. affects the health and well-being of families, process in which knowledge, strategic planning, and politics will combine to create public health policy to address these issues in the context of current programming.

CPH 751 GLOBAL PUBLIC HEALTH (3)
Course materials and visiting speakers present and analyze major issues in global health, identify and compare health systems in developed and developing countries, and explore emerging global health issues. This course is required for the Certificate in Global Health.

CPH 758 SPECIAL TOPICS IN HEALTH SERVICES MANAGEMENT: PUBLIC HEALTH POLICY AND GOVERNANCE (3)
An analysis of the development and implementation of health policy, paying special attention to political and governance issues. The course will focus on health policy at all levels of government, with particular focus on the interdependence of national, state, and local governments and organizations to provide public health services.

CPH 758 SPECIAL TOPICS IN HEALTH SERVICES MANAGEMENT: SOCIAL MARKETING (3)
This course is designed to analyze the components and applications of social marketing for public health. Students will identify appropriate uses of social marketing in public health, discuss the use of social marketing to make public health interventions culturally sensitive and educational materials relevant for low-income, minority and other special populations, identify the appropriate methods for use in conducting social marketing research, design a social marketing plan to ameliorate a public health problem, apply the social marketing mind set to develop, implement/manage, and evaluate social marketing programs, discuss guidelines for selecting and working with the creative/production team, discuss guidelines for working with local media to implement a social marketing campaign, and discuss ethical principles that guide social marketing practice.
HA 603 LEGAL ASPECTS OF HEALTH ADMINISTRATION (3)
Familiarizes students with the application of law to management issues in health care organizations. Skills including terminology, legal reasoning, the tools of law, and topics specific to the health care setting are addressed.

HA 636 HEALTH ECONOMICS (3)
Applies general theoretical principles of economics to the health care sector. The basic approach is to recognize the importance of scarcity and incentives, allowing for differences peculiar to health. The demand and supply of health and medical care are examined as they involve physicians, nurses, and hospitals. The competitiveness of their markets, health insurance, and the role of government are explored.

HA 673 HEALTH POLICY (3)
An analysis of the development and implementation of health policy on a national, state, local and organizational level. The course will focus on issue and policy analysis, formal and informal processes of policy development and the issues, values and political and community factors affecting policy development and program implementation.

OTHER PUBLIC HEALTH COURSES

CPH 748 RESIDENCY CREDIT FOR MASTERS DEGREE (0)
This is a zero-credit-hour course for students who have completed all of the course requirements, are in good standing with the program, and are working on their capstone project full-time. Enrolling in this course maintains the student in a full-time status in order to use the library and other University facilities, and can be utilized one semester. If additional semesters are needed this must be approved by the Director of Graduate Studies. See the Admissions/Student Affairs office to register.

RESEARCH/INDEPENDENT STUDY AND SPECIAL TOPICS CREDIT HOURS (1-3 each)
CPH 646-649-718-719-729-739-758-759-778-779
A sequence of courses designed to allow students to earn course credit once all requirements and electives have been fulfilled. The student may participate in a variety of activities, from individual reading tutorials, to faculty-assisted research, to research associated with a student’s capstone topic. Students are required to develop a prospectus for completion and evaluation of the work for the number of credit hours assigned. They may be repeated, in sequence, up to three times. An example of the prospectus is located in Appendix V of the Handbook.

CPH 695 PUBLIC HEALTH PRACTICE THROUGH SERVICE LEARNING (3)
Provides students the opportunity to gain first hand public health experience by participating in projects in a community setting, completing a project, and participating in a series of seminars.
Certificate/Emphasis Options

Health of Agricultural Populations

Students in the MPH program can opt for an emphasis in the Health of Agricultural Populations (HAP) within any department of CPH. This program is funded by CDC/NIOSH Central Appalachian Region Education and Research Center (ERC) and is coordinated by the Southeast Center for Agricultural Health and Injury Prevention, one of the College of Public Health’s Research Centers [http://www.mc.uky.edu/scahip/programs.html](http://www.mc.uky.edu/scahip/programs.html). Students take a series of courses, seminars, and field practice experiences that emphasize health and/or safety of farmers, farm workers, farm families, and other workers in production agriculture, forestry, and commercial fishing. The purpose of the HAP emphasis area is to prepare public health professionals who can work effectively to promote health and prevent injury among agricultural populations. Students’ capstone and practicum should focus in agricultural health and/or safety.

Student funding is available on a competitive basis:

- MPH students are eligible for a NIOSH traineeship, which provides partial stipend and/or partial tuition support. Students must be a U.S. citizen or a U.S. permanent resident. Funding is also available to support capstone projects, data collection, practicum travel, and travel to professional meetings.

**NOTE:** You do not “pay back” these funds. This is a scholarship. This is not a loan; receiving the funds do not obligate you for federal employment or requirement to work in a particular part of the country.

The program requires 45 to 50 semester hours; this is above the minimum of 42 hours in the MPH. However, you receive funding. Students must also complete all requirements for ERC trainees, including ERC seminars, field experiences and other activities.

Interested students should contact Robert McKnight, MPH, ScD, Professor and Director of the Southeast Center for Agricultural Health and Injury Prevention, 859-323-6836, rmcknig@uky.edu and arrange an interview.

Students who participate in the Health of Agricultural Populations should inform their department Chair and Academic Advisor of their intentions, and complete all courses required for their area of concentration.

Students enrolled in the Health of Agricultural Populations emphasis area must complete the additional courses listed below:

- CPH 728a Special Topics in Occ/Env Health: Health of Agri Populations (Spring 2013) 3
- CPH 610 Injury Epidemiology (Spring 2013) 3
- CPH 728b Special Topics in Occ/Env Health: Advanced Agri Health (Fall 2013) 3

(Some of the courses listed above count as elective/selective in some departments)
Other required courses and seminars are required as part of ERC funding. More details will be available in August 2012.

**CPH 728a**  
*Special Topics in Occ/Env Health: Health of Agricultural Populations*  
*To be taught Spring 2013*

An introduction to the unique threats and hazards that impact the health, safety and productivity of farmers, members of farm families, hired farm workers, and others who live or work in agricultural environments, such as crop and livestock production, timber production and commercial fishing. The course will cover the history of the field and issues current to agricultural populations. Emphasis will be given to special populations in agriculture such as youth, elderly, migrant farm workers, and females, along with the traditional farmer. Other topics include health promotion strategies, epidemiology of farm risks, farm demographics, farm mental health, and current research to improve health and reduce injuries in agricultural populations. Includes field visits to agricultural production sites.  
**Prerequisite:** None

**CPH 610**  
*Injury Epidemiology and Control*  
*To be taught Spring 2013*

Describes the distribution and determinants for traumatic injury and poisonings, including both intentional and unintentional events. Topics include sources of data, methodological approaches to studying injuries, evaluation of injury interventions, and the link between epidemiology and public health policy impacting injuries.  
**Prerequisite:** Epidemiology (CPH 605) or permission of instructor.

**CPH 728b**  
*Special Topics in Occ/Env Health: Advanced Agricultural Health*  
*To be taught Fall 2013*

This advanced course is designed for students to gain in-depth knowledge in agricultural illnesses and injuries. Agricultural health and safety experts will present a review of health problems associated with agricultural populations, including farmers, members of farm families, hired farm workers and others working in timber, logging and fishing. Environmental and occupational disease and injury etiology, prevention and control measures will be reviewed, based on students’ interests and suggestions. Includes field visits to agricultural production sites.  
**Prerequisite:** Health of Agricultural Populations

**Other Advantages:**

Students work closely with faculty of Southeast Center for Agricultural Health and Injury Prevention. Opportunities exist for Capstone data, and practicum opportunities, as well as travel to conferences.
The Graduate Certificate in Gerontology

The objective of the Graduate Certificate in Gerontology is to prepare both graduate students and practicing professionals to assume key roles in improving the quality of life for older adults and furthering our understanding of the aging process.

The Graduate Certificate in Gerontology offers students and professionals specialized training in aging from a multi-disciplinary perspective. Persons working towards their Certificate include:

- Students preparing for careers in public service and program administration that relate to understanding and meeting the needs of the older population;
- Graduate degree candidates in the basic and applied sciences who are interested in the study of aging;
- Candidates seeking professional degrees in human service professions who plan to provide specialty services to the elderly;
- Professionals with an interest in the field of aging who desire further course work in gerontology to enhance their professional development.

Eligibility-Admission

The minimum Graduate School requirements for admission to a Certificate curriculum are the same as those in effect for Post baccalaureate status.

- Students who already are or will be enrolled in a degree program, or those who simply apply for Post baccalaureate (non-degree) status in order to complete the Certificate, are eligible to apply for admission.
- Applicants for admission to the Graduate Certificate in Gerontology must be approved for admission by the Certificate Director who shall notify the Graduate School in writing of the student’s admission. No more than 6 hours can be taken prior to admission and be used to fulfill the Certificate requirements.
- Admission to or award of a graduate Certificate does not guarantee admission to a degree program in the same or any other discipline.

The Graduate Certificate in Gerontology is awarded to individuals who complete 15 graduate credit hours in an approved multi-disciplinary curriculum in gerontology.

- Twelve hours of coursework must include at least one course in each of the following areas:
  - Biomedical Sciences and Health Services (3 credit hours)
  - Social and Behavioral Sciences (3 credit hours)
○ Policy, Planning and Ethics (3 credit hours)

An elective (3 credit hours) selected from any of the three groups completes the 12 hour coursework requirement. Students may choose courses according to their preference and course availability. To ensure an interdisciplinary experience, no more than 2 courses may be taken from a single department other than Gerontology. Special requests may be submitted to the Faculty Committee in advance. There are specific curriculum requirements for PharmD and Physician Assistant Studies students so check with your advisor.

Students must receive an A or B in all Certificate coursework.

- A practicum (3 credit hours) focused on aging of a minimum of 210 hours will satisfy the practicum requirement. This practicum can be completed in conjunction with a practicum requirement from a degree program, or can be arranged independently for the Certificate.

For a listing of courses please go to http://www.mc.uky.edu/publichealth/certificateprograms.html?tab=2#TabbedPanels1:

For additional information about the Certificate contact:

Interim Certificate Director
Graham Rowles, Ph.D.
Phone: 859-257-1450 x80145
Email: growl2@email.uky.edu
Graduate Certificate in Global Health

The goal of the new graduate certificate in global health (GH) is to provide a general foundation in the understanding of global health issues and the complex multiplicity of factors that affect them, and to provide some basic tools in health assessment methods to measure their impact. Given the widespread globalized nature of our world today, there is an increasing need for understanding the impact of globalization on health, both in terms of health patterns common across regions, and in terms of how what were once considered focal, limited local issues can transcend national and continental borders. The GH certificate is designed to prepare students for the increasing demand for international, interdisciplinary skills in the areas of public health prevention, health care and other health-related disciplines.

Requirements for Completion of the GH Certificate

The curriculum of the GH Certificate consists of 15 credit hours: 12 hours of classroom course work, and 3 credit hours fulfilled by an internship in a foreign country. Each internship experience is unique, depending on the student’s background and interest, as well as on the needs and resources of the location where it will be conducted. In some cases an MPH or DrPH practicum, if done in a foreign location, may also meet the internship requirements of the GH Certificate.

The curriculum is divided into required and elective courses as follows:

Required Courses
1) CPH 751 Introduction to Global Public Health - 3 credit hours
2) A health assessment course, such as CPH 605 (Epidemiology) – 3 credit hours
3) CPH 709 Global Health Internship – 3 credit hours

Elective Courses
Students are to select at least two elective courses, for a minimum of 6 credit hours. Below is a selected list of possible electives, but students may choose other graduate-level courses, with approval of the Graduate Certificate Director. Courses must include topics related to global health from a medical, cultural, geographical, sociological, or other perspective. One elective has to be from List A (or be approved by GH Director). At least one course has to be from a college other than Public Health.

List A
ANT 646 Global Health: People, Institutions, and Change
CPH 646 Public Health and Anthropology
CPH 612 Infectious/Emerging Diseases Epidemiology
CPH 790 Water Sanitation and Health
GEO 475G Medical Geography
ENT 561 Insects Affecting Human and Animal Health

List B
AAS 431G Cultures and Societies of Sub-Saharan Africa
ANT 603 Human Biology In Context of Sociocultural Change
ANT 766 Gender, Ethnicity and Health
ANT 774 Food and Food Security in a Changing World (BSC 774)
ANT 775 Culture and Politics of Reproduction
ANT 637 Sociocultural Dimensions of Economic Development (SOC 637)
BIO 582 Virology
BSC 766 Concepts in Medical Sociology (SOC 766)
BSC 763 Seminar on Health Inequities
CHE 565 Environmental Chemistry
CJT 619 Professional Seminar in International/Intercultural Communication
CPH 645 Food Systems, Malnutrition, and Public Health
GEO 544 Human Population Dynamics
NUR 752 Culturally Competent Healthcare: Client, Clinician, and Organizational Perspectives

For additional information about the Certificate and how to complete an application please contact:
Dr. Claudia Hopenhayn
Associate Professor of Epidemiology, College of Public Health
Director of Certificate in Global Health
cmhope0@uky.edu

The Maternal and Child Health Graduate Certificate

The MCH Graduate Certificate curriculum involves a total of 15 graduate credit hours including 6 hours of required courses.

Required Courses:
CPH 740 – Introduction to Maternal and Child Health (3 hrs)
CPH 605 – Introduction to Epidemiology (3 hrs)

Elective Courses:
CPH 718 – Maternal and Child Health Information and Data Systems (3 hrs)
CPH 718 – Perinatal Epidemiology (3 hrs)
CPH 645 – Food Systems and Malnutrition and Public Health (3 hrs)
CPH 648 – Health and Culture (3 hrs)
CPH 646 – Special Topics in Behavioral Health: Public Health and Anthropology (3 hrs)
CPH 647 – Research Methods for Health Promotion (3 hrs)
CPH 758 – Special Topics in Health Services Management: Health Care Access and Coverage (3 hrs)
CPH 610 – Injury Epidemiology and Control (3 hrs)
CPH 653 – Public Health Law and Policy (3 hrs)
CPH 751 – Introduction to Global Public Health (3 hrs)
NFS 516 – Maternal and Child Nutrition (3 hrs)
CNU 502 – Obesity: Cell to Community (2 hrs)
NUR 658 – Risky Behaviors and Health (3 hrs)
FAM 502 – Families and Children Under Stress (3 hrs)

MCH Graduate Certificate students must maintain a GPA of 3.0 or better to progress in the curriculum.

All course work for the MCH Graduate Certificate must be completed within 5 years of admission.
With the exception of CPH 740 – Introduction to Maternal and Child Health, courses and credit hours that satisfy the MCH Graduate Certificate can be used to jointly satisfy degree credit hours for a degree (i.e., MPH, DrPH) and Graduate Certificate.

Students enrolled in the MCH Graduate Certificate Program may not use the MCH-required Certificate Course, CPH 740 – Introduction to Maternal and Child Health for credit in any other degree program in the College of Public Health.

Contact for Information
Andrea Perkins, Coordinator
111 Washington Ave, Room 120
Phone: 859-218-2096
Email: andrea.perkins@uky.edu

Certificate Administrator
Lorie Wayne Chesnut, DrPH(c), MPH
111 Washington Ave, Room 209C
Phone: 859-218-2226
Email: lorie.chesnut@uky.edu
Public Health Management Graduate Certificate

Certificate Objectives
Prepare individuals interested in public health management as well as public health workers to address the multi-factorial management issues in their workplaces by enhancing public health management skills. The Graduate Certificate in Public Health Management does not take the place of the Masters in Public Health with a concentration in Health Services Management, but instead provides individuals who have completed related professional programs with expanded management capabilities. Provide students with theoretical, practical, and relevant educational experiences in management to enhance the health and welfare of populations in Kentucky, the nation, and around the globe. Provide students with the knowledge and skills to develop, implement, and manage public health programs, prepare budgets, and evaluate their effectiveness.

Curriculum
The Graduate Certificate in Public Health Management consists of 15 credit hours. Three credit hours are required and students may select from a variety of electives totaling 12 credit hours.

Required Courses
CPH 650 Management of Public Health Organizations (3)
This course teaches the theories and practice of administration as they are applied in public health settings. It addresses knowledge and applications of the functions of public health management and their relationship to organizational effectiveness.

CPH 655 Public Health Accounting & Finance (3)
This course is designed to introduce the use of management accounting techniques in the management of public health organizations. Emphasis will be on the use of accounting information to achieve management functions such as planning, staffing, organizing, controlling and directing.

Selective Courses
CPH 605 Introduction to Epidemiology (3)
In this course students are taught the principles and methods of epidemiologic investigations, research methodology, and statistical integration. Major topics include etiologic factors of disease and injury, the distribution of health problems within populations, levels of prevention, and the concept of risk. The design of retrospective, cross-sectional and prospective studies are examined to illustrate odds ratio, relative risk, life tables, and person-years. Students are required to complete and submit a research proposal, present a topic paper, and serve as a cofacilitator for an article discussion.

CPH 653 Public Health Law & Policy (3)
This is an introductory course for non-lawyers in selected aspects of the law related to public health. Major attention is paid to fundamental legal principles and legal reasoning, recurring legal issues confronted by public health agencies, and the use of law to advance a public health agenda. Emphasis is placed on giving students tools to use when they encounter law related problems in their professional careers. The course is intended for students in all divisions of the College of Public Health. The course has a module on public health law ethics and practice as well as a module on statutory rights of vulnerable populations and reproductive health issues.
**CPH 660 Geographic Information Systems in Public Health (3)**
This course will introduce students to the ArcView Geographic Information System (GIS) to map and spatially analyze public health data. While GIS has numerous applications for many disciplines, this course will specifically focus on its uses in public health. Beyond use of GIS for cartography, this course will also examine issues and methods of analyzing the processes creating health patterns. The versatility of GIS in a public health setting will be examined and will include exercises looking at GIS applications involving health marketing, demography, epidemiology, and health care systems.

**CPH 663 Public Health Practice and Administration (3)**
This course emphasizes the practical application of the principles of health care organization to public health at the national, state, and local levels. Course objectives reflect an overview of the principles of managing a public health organization: legal basis of public health, organization and delivery of public health services, health planning and community needs assessment, epidemiological approach to diseases, methods for chronic and infectious disease control, future changes that can impact the provision of public health services, etc.

**CPH 751 Introduction to Global Public Health (3)**
This course will acquaint students with the major issues and challenges for public health in a variety of wealthy, emerging and impoverished nations. Course materials and visiting speakers present and analyze major issues in international health, identify and compare health systems in developed and developing countries, and explore emerging global health issues.

**CPH 752 Leadership In Public Health (3)**
This course emphasizes the practical application of the theories and principles of leadership. In addition to focusing on one’s personal leadership development, it also includes the integration of the concepts of servant and shared leadership for promoting change in public forums and decision-making arenas. Case studies and interviews of public officials serve as a basis for working with today’s organizations and communities for the good of the public’s health.

**CPH 758 Special Topics in Health Services Management: Strategic Planning and Evidence-Based Decision Making (3)**
Topics include basic strategic planning theory, the process of strategic plan development, specific methods of analysis including environmental and organizational analysis and appropriate analytical techniques, decision theory and analysis. Several health care trends such as restructuring, innovation in health care delivery and financing and performance measurements will be illustrated through case analysis in public health settings.

**CPH 758 Special Topics in Health Services Management: Public Health Informatics (3)**
Public health information systems are essential to the evidence base for public health action and the ongoing need for early warning of emerging health challenges. This course provides useful information for public health improvement.

**CPH 758 Special Topics in Health Services Management: Health Economics (3)**
This course applies general theoretical principles of economics to the health care sector. The basic approach is to recognize the importance of scarcity and incentives, allowing for differences peculiar to health. The demand and supply of health and medical care are examined as they involve physicians, nurses, and hospitals. The competitiveness of their markets, health insurance, and the role of government are explored.

James W. Holsinger Jr., MD, PhD
Director of Public Health Management Certificate
jwh@uky.edu
The Graduate Center in Gerontology

Gerontology is naturally diverse, and embraces a wide array of disciplines and scholarly perspectives within at least the social sciences and humanities, the bench sciences of biology and chemistry, medicine, and the health sciences and public health. Studies of aging and of older persons have long been situated within disciplines, and have generally assumed the theoretical foundations and dominant methodological approaches that characterize particular disciplines.

The Graduate Center for Gerontology at the University of Kentucky recognizes the diverse ways of exploring aging and older persons. But instead of limiting students within a particular discipline, or even just providing opportunities to study in several disciplines, we seek to develop in students a truly integrative and holistic way of thinking about gerontology. The scope of our program involves the continuums of cell to society, and theory to practice. Students at the doctoral level cannot possibly become experts in all areas of gerontology and all scales of inquiry. Rather, our goals for successful doctoral student development may be summarized as follows:

- To be able to critically assess any disciplinary approach to studies of aging and older persons;
- To be able to innovatively integrate relevant concepts and theories from several disciplines to effectively plot important research directions;
- To be able to effectively employ the most suitable research designs and methods in addressing scholarly questions in gerontology.

Any questions about the doctoral program in the Graduate Center for Gerontology can be directed to:

Dr. Graham Rowles  
Professor  
Room 303A, 900 South Limestone  
Lexington, Kentucky 40536  
email: Email: growl2@email.uky.edu  
web: www.mc.uky.edu/gerontology

The Council on Aging

The Council on Aging provides a bridge between the university and the community in relation to aging.

Community Service  
It works with local and state governments and other organizations that serve older adults by providing consultation and assistance with planning, development and evaluation and by facilitating university-community collaboration in the field of aging.

Academic Service  
The Council assists academic programs in developing curricula and community-based practicum opportunities in aging. Donovan Scholarships in Gerontology are awarded annually to full-time students who demonstrate academic excellence and interest in a career in aging.
It uses its external relationships to assist researchers with community-based aging research. It coordinates the Sanders-Brown Friday Seminar program, an informal venue where researchers in aging discuss work in progress.

**Educational Programs for Professionals in Aging**
The Council manages the annual Summer Series on Aging, a national conference for professionals providing the most current information in geriatrics and gerontology from a broad-based, multidisciplinary perspective. The Geriatric Education Center offers continuing education opportunities throughout the state and through distance education for professionals who work in the field of aging. Additional programs and conferences are frequently offered in response to identified needs.

**Educational Programs for the Public**
The Council presents numerous educational programs for older adults, including the Donovan Scholars Program, which provides tuition-free academic courses for persons aged 65 and older. Special enrichment courses are offered for persons aged 60 and older in art, music, computers, gerofitness, great decisions, radio drama, and languages. More than 1,000 older adults annually take credit or enrichment classes. The Donovan Forum regularly presents featured speakers on topics of special interest to older persons. Community programs are offered regularly in the areas of caregiving and financial planning.
Appendix I:
University and College Of Public Health Policies
Health Care Colleges Code of Professional Student Conduct (HCC Code)

The Health Care Colleges Code of Student Professional Conduct (HCC Code) provides the standards of professional conduct and procedures to be followed when questions arise about the professional moral or ethical character of a student enrolled in courses or programs, including clinical programs, in the health care colleges, http://www.uky.edu/Provost/APFA/Policy_Protocol/HCCSPBC.pdf.

Fitness for Duty

College of Public Health students who are on rotations, internships, assistantships, or work assignments with UK Healthcare are subject to its Fitness for Duty policy, online at http://www.hosp.uky.edu/policies/viewpolicy.asp?PolicyManual=10&PolicyID=928.

Social Media Guidelines

UK HealthCare recognizes the impact of social media websites like Facebook, Twitter and MySpace on our workforce. Our expectation is that faculty, trainees, students and employees know what is expected in our environment of health care and observe our policies on behavioral standards, patient privacy, use of personal electronic devices and hospital resources. Patient privacy is vitally important to us. We train regularly on our obligations related to privacy and security matters (HIPAA). Recent changes to the HIPAA rules require us to notify the federal government when patient privacy has been violated.

Below are some expectations when using social media sites.

Expectations:

- Do not "friend" patients
- Do not accept “friend requests” from patients or their family members
- Never share any patient information via Facebook or other social media
- Never post pictures of patients or pose with patients for pictures
- Never give medical advice via social media

Frequently asked questions:

Please view our Social Media Guidance 2011 FAQ for further information on UK HealthCare's social media guidelines.

Confidentiality and Disclosure

The Family Education Rights and Privacy Act of 1974 (FERPA, also known as the Buckley Amendment) provides basic privacy rights to students in regard to their academic transcripts. Under FERPA provisions, students have the right to have their academic records kept separate and confidential unless they consent in writing to have it released. However, FERPA also provides that the College of Public Health may disclose (to University personnel) the student's academic record without the student's consent when the person requesting the information has a legitimate educational interest and the information is used under the following disclosure guidelines and for the purpose of:
1. academic advising
2. writing a letter of recommendation requested by the student;
3. selecting students for honorary organizations;
4. informing community-based faculty members serving as preceptors to improve the quality benefit to each rotation;
5. responding to a directive pursuant to law or court order.

**Diversity, Equal Educational and Employment Opportunities**

The College of Public Health and University of Kentucky strive to develop an environment where the value of diversity among students, faculty and staff is accepted, encouraged and embraced. Diversity encompasses differences in age, ethnicity, gender, national origin, race, religion, sexual orientation, socioeconomic background and unique individual style. The individual characteristics, talents and contributions of all people are valued and recognized for the unique contribution they make to our College. The following statement, required on all official UK documents, guides all admissions and employment practices, and represents the best expression of the CPH commitment to diversity.

*The University of Kentucky is committed to a policy of providing educational opportunities to all qualified students regardless of economic or social status, and will not discriminate on the basis of race, color, religion, sex, marital status, beliefs, age, national origin, sexual orientation, or physical or mental disability.*

**Graduate Assistantships**

The College of Public Health in conjunction with the Graduate School has a limited number of assistantships for the academic year. As assistantships become available the Admissions/Student Affairs office will e-mail to all students' information regarding job duties, any special skills needed, and contact information. It is the students' responsibility to schedule an interview. The following guidelines should be noted concerning assistantships:

- Depending on the nature of their assignment and on recommendation of their academic or administrative unit, graduate assistants may be eligible for tuition scholarships provided by the Graduate School. Tuition scholarships **do not** cover any fees applied by the University of Kentucky.
- Graduate assistants must complete a job application through Human Resources and submit to a criminal background inquiry and a drug screening. Instructions to complete this process will be available at the College Business Office when the student has been awarded the assistantship.
- In light of budget constraints and to maximize existing funds used for tuition assistance, the Graduate School will no longer pay drop charges for students who reduce hours below full-time status (usually 9 hours) or withdraw from the University on or after the first day of class. *This means the student will be liable for any tuition charges for dropped courses after the first day of classes if they fall below full-time status.*
- Assistants who are also full-time graduate students may be assigned responsibilities requiring no more than 50 percent of their time. Normally a half-time appointment should require no more than 20 hours per week of assignable duties, for a .50 (full) assistantship, or 10 hours per week for a .25 (half) assistantship.
- University-wide policy provides that assistants who are candidates for a master's degree shall serve no more than a maximum of three years without completion of their degree
requirements. Graduate assistants are advised to consult with the Director of Graduate Studies relative to total number of years of support eligibility.

- Graduate assistants must maintain satisfactory academic records and demonstrate progress toward degrees; their assistantships will not be renewed if their academic progress is unsatisfactory.
- In order to preserve the academic focus of graduate students who are on full-time assistantships and have their tuition paid by the University, the Graduate School does not allow for additional salary or employment.
- The appointment of a graduate assistant may not be terminated before the end of the period of appointment without the individual being provided with an opportunity to be heard. Issues should first be addressed, where possible, with the appropriate unit Chair, Director, or Dean of the College in which the assistant holds employment. They may also consult with the Dean of the Graduate School concerning their rights and responsibilities. They will also be provided with an opportunity to be heard before the University’s Senate Advisory Committee on Privilege and Tenure.

Disabilities (Physical, Mental and/or Learning)
The University of Kentucky is committed to meeting its obligations pursuant to Section 504 of the Rehabilitation Act of 1973, as amended; and the Americans with Disabilities Act of 1990, as amended. An individual with a disability is defined as someone who has “a physical or mental impairment that substantially limits one or more of the major life activities of such individual.” Any student who has such a disability and seeks special accommodations from the University must notify the Admissions/Academic Affairs Office of the College of Public Health of that disability, in writing, preferably before the beginning of the school year, but in no case later than the third day of classes for the fall semester. If a disability develops during the school year for which accommodations are requested, the student must notify the Admissions/Academic Affairs office, in writing, as soon as they become aware of the disability.

All students requesting accommodations need to be registered with the Disability Resource Center (DRC) and have official UK accommodation letters to provide to each of their faculty. Students are advised that they must provide a reasonable amount of notice for faculty to arrange testing accommodations. Faculty should honor accommodation requests received at least one week prior to a scheduled test or exam. Requests for faculty support with notes are to be interpreted such that when you publicly display outlines or text through a PowerPoint presentation, overheads, or other visual device, it is reasonable for you to provide the student with a copy of that text. (If you are displaying a set of slides or showing a short film, it is not reasonable for the student to receive a copy. If you work on problems or make lists on a chalk board, it is not reasonable for you to provide a written copy to the student. Students may not request your private, personal notes.)

Requests for testing accommodations that only include extended time (50% or 100%) and testing in a separate, low distraction environment may be set up by the faculty, with a proctor and a quiet work space. At faculty’s discretion, the accommodated testing can take place in the Counseling and Testing Center, but the exam must be completed by 4:00 p.m. For further information about scheduling accommodated exams at the Counseling and Testing Center, please call 257-8703 or visit their website at http://www.uky.edu/StudentAffairs/Counseling/testing.html.

Requests for testing accommodations that include use of a computer, software, a reader, a scribe, an interpreter, or exams that take place after 4:00 p.m. may not be scheduled with the
Counseling and Testing Center. Faculty are responsible for establishing arrangements for these accommodated tests. Academic departments are required to assist with this process.

If you need additional accommodated testing resource options, you may contact the Disability Resource Center for assistance. However, the DRC also must have a reasonable advanced notice (at least one week) of a test or exam that needs special accommodations. For further information or questions, please call the DRC at 257-2754, http://www.uky.edu/celt/disabilities.php.

**Drug Free Institution**
The Drug-Free Workplace Act of 1988 and the Drug-Free Schools and Communities Act Amendment of 1989 set a standard of behavior, which affects students who are on University of Kentucky property, on University business, or at University-sponsored events. The University policy, as well as the laws from which the policy is derived, define conduct related to the unlawful possession, use, dispensation, distribution or manufacture of alcohol or illicit drugs. Students found in violation are subject to disciplinary action up to and including suspension or termination. The Drug-Free Institution Policy can be found here, http://www.uky.edu/HR/policies/hrpp013.html.

**UK Academic Ombud**
At the University of Kentucky, the Office of Academic Ombud Services is responsible for assisting students and instructors work through and resolve academic related problems and conflicts. The major arenas of activity for UK’s Academic Ombud include both Student Academic Rights and Academic Offenses. The primary focus of Academic Ombud Services is the process by which decisions are made, and the primary task of the ombud is to ensure fair policies, processes, and procedures that are equitably implemented. Thus, the Academic Ombud is a neutral party working as an advocate for fairness and equity, http://www.uky.edu/Ombud/.

The UK academic ombud is located at 109 Bradley Hall and may be reached at (859) 257-3737, fax, (859) 257-5346, or email: ombud@uky.edu.

**Smoke-Free Environment**
On April 22, 2008, the UK Board of Trustees gave final approval to the revised version of the university policy that outlines the university’s smoke-free policy. This effectively states that as of Nov. 20, 2008, UK HealthCare has made the commitment that there will be no tobacco use permitted in or on any UK HealthCare facility or grounds.

**Class Attendance**
*Every student is expected to attend all class sessions*, including laboratories and other outside-the-classroom activities as deemed necessary by the course instructor, *and to take all examinations*. Each instructor determines his/her individual policy for class attendance, completion of assigned work, absences at announced and unannounced examinations and excused absences. A student has the right to expect this policy to be in writing and given to him or her by the first or second meeting of the class. Failure to comply with these rules may result in lowered grades.

In all cases, the student bears the responsibility for notifying the instructor of any missed work and for making up any missed work. If feasible, the instructor may give the student an
opportunity to make up the missed work or examination missed due to an absence during the semester in which the absence occurred.

Class Cancellations
The University never entirely closes, but there may be a rare cancellation of classes due to inclement weather. Announcements of cancellation or delay of classes normally will be made by 6 a.m. through the local media. The latest information will be on the UK Infoline at 257-5684, UK Cable Channel 16, or UK website, http://www.uky.edu/. Those students who are participating in an off-site experience will be expected to follow the cancellation/closing policies of the agency/clinic/company where they are assigned.

Dress Code
All students should maintain a clean, neat appearance at all times, and students' attire should be commensurate with the activities in which the student will participate during that day.

This policy is designed to provide a reasonable standard of dress and appearance for public health students. If a faculty member deems a particular student's attire to be inappropriate, according to the guidelines below or according to the class syllabus, he or she may notify the student privately at any time before, after, or outside of class and ask the student to correct the problem.

Electronic Devices
Out of respect for classmates and faculty, all students are asked to function in a professional manner as it relates to the use of electronic devices during class sessions. Cell phones, pagers, etc. are disruptive to classroom activities and must be deactivated upon entering the classroom. Instructors may ask that laptops be closed during lectures.

Medical Center I.D. Badges
All students enrolled in one of the Medical Center colleges must have a picture identification badge. They must be worn any time you are in the Medical Center area. Since some M.P.H. courses are scheduled for the late afternoon and evening, the chance for intervention by Medical Center Security increases. The hours for getting your photograph taken are Monday – Friday, 7:00 a.m. to 3:30 p.m. in room H105, 323-2356, http://www.uky.edu/Police/MCS/mcbadges.html. Please turn these badges in upon graduation.

Student I.D. Badges
Student Identification Badges (U.K.I.D.) may be used for a variety of services on campus (copying services, athletic events, library use, etc.). These can be obtained from the University of Kentucky I.D. office, 107 Student Center. Their hours of operation are 9 a.m. to 5 p.m.; Monday thru Friday, telephone number, 257-1378, http://www.uky.edu/UKID/.

Library Resources
The University of Kentucky libraries house over two million volumes and rank among the largest in the south and midwest. The Government Publications Department, a Federal Depository, contains documents relating to municipal, state, and national topics. The system also includes Special Collections, and individual libraries of Medicine, Business, Economics, and Law. The University has the W.T. Young Library, a multi-million dollar, state-of-the-art central library. Public health students may also use the library sources in the Health Sciences Learning Center.
(College of Nursing) and the Medical Science Building. For information on training and library updates, [http://www.mc.uky.edu/medlibrary](http://www.mc.uky.edu/medlibrary).

**Computing Services**
The Communications and Network Systems offers Student Computing Services at many locations on campus.

Students can access information about these sites and other labs on campus by visiting this website, [http://www.uky.edu/ukit/labs](http://www.uky.edu/ukit/labs).

**E-mail**
All UKCPH students must establish a University of Kentucky e-mail address and provide it to the Admissions/Student Affairs office. All correspondence from UKCPH to students will be sent to the UK address. To establish an e-mail address please go to [http://www.uky.edu/email/](http://www.uky.edu/email/) and follow the directions.

Students may report problems with their e-mail address to the Customer Service Center, 111 McVey Hall, 257-1300, [http://www.uky.edu/IT/CustomerService/contact.php](http://www.uky.edu/IT/CustomerService/contact.php).

**Conference Rooms**
The College of Public Health has two large conference rooms suitable for classes (CPH 115 and 202), oral final examinations, and meetings. To reserve, contact Andrea Perkins, (859) 218-2096 or Laverne R. Carter, (859) 218-2066.

**Confidentiality of Student Records, Address Information, and Student Rosters**
Transcripts and grade information will be released only upon written authorization from the student. Directory information (name, address, telephone listing, date and place of birth, major, dates of attendance, degrees, and most recent educational institution attended) will be released without authorization unless the student notifies the Registrar in writing to the contrary. University of Kentucky College of Public Health student records are kept by the Office of Admissions and Student Affairs in a locked cabinet, with access restricted to authorized personnel.

The College of Public Health does NOT make lists of students, addresses, phone numbers, e-mail addresses, etc. available to anyone other than students, faculty and staff of the school. Students are instructed NOT to distribute the lists of their classmates to individuals outside the college.

At UK, students can use the UK website to access important information, including grades, student schedules and registration information. Students also can update their addresses and other information, [https://myuk.uky.edu/irj/portal](https://myuk.uky.edu/irj/portal).

**University Health Services**
University Health Services provides medical treatment for full and part-time students. You should access their website for their policies and procedures, [http://ukhealthcare.uky.edu/uhs/](http://ukhealthcare.uky.edu/uhs/).

**Graduate School Academic Policy**
The MPH degree is governed by the Graduate School. All Graduate School academic policies and procedures apply to the degree and those students enrolled in the program. Graduate School policies regarding student academic progress may be accessed at their website at http://www.rgs.uky.edu/gs/ in the Graduate School Bulletin.

**Grades**

The official grades of the graduate students are recorded in the office of the Registrar. The grading in graduate courses is done according to the following scale:

<table>
<thead>
<tr>
<th>Letter</th>
<th>Description</th>
<th>Grade Points per Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>High Achievement</td>
<td>4</td>
</tr>
<tr>
<td>B</td>
<td>Satisfactory achievement</td>
<td>3</td>
</tr>
<tr>
<td>C</td>
<td>Minimum passing grade</td>
<td>2</td>
</tr>
<tr>
<td>E</td>
<td>Failure</td>
<td>0</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
<td>See explanation below</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory</td>
<td>See explanation below</td>
</tr>
</tbody>
</table>

Graduate courses (400G-799) may not be taken Pass/Fail.

A grade of I (incomplete) may be assigned to a graduate student if a part of the work of a course remains undone and there is a reasonable possibility that a passing grade will result from completion of the work. All incompletes must be removed from a student's record before a student can schedule a final examination. *Incompletes unresolved after one year will become a failing grade.*

A grade of S (satisfactory) may be recorded for students in graduate courses which carry no credit and in graduate seminars, independent work courses, and research courses which extend beyond the normal limits of a semester or summer term. S grades must be removed from a student's record before a student can schedule a final examination.

An overall average of B (3.00) on all graduate work in the program must be attained before a degree may be awarded.

**Scholastic Probation**

When students have completed 12 or more semester hours of graduate coursework with an average of less than 3.0, they will be placed on scholastic probation and are subject to dismissal from the program. Students will have one full-time semester or the equivalent (9 hours) to remove the scholastic probation by attaining a 3.0 average. If probation is not removed, the student will be subject to dismissal from the Graduate School. In this situation, the Dean of the Graduate School will consult with the Director of Graduate Studies prior to undertaking the dismissal action.

Students who have been dismissed from the Graduate School may apply for readmission after two semesters or one semester and the second summer term. Readmission is contingent upon the approval of the University of Kentucky College of Public Health.

Exceptions to this policy can be made only by the Dean upon the recommendation of the DGS.
Please note that students on academic probation are not eligible to sit for the master's final examination, register for a field practicum, or eligible for assistantships, scholarships, and fellowships.

**Academic Course Load - Full-Time**

Fall And Spring Semesters:
- Minimum course load: 9 hours
- Normal course load: 12 hours
- Maximum course load: 15 hours

First summer session (4 week): 4 hours maximum

Second summer session (8 week):
- Minimum course load: 6 hours
- Maximum course load: 9 hours

A maximum of 12 hours may be taken in the combined Summer Sessions.

**Repeat Option**
One graduate course may be repeated and only the second grade will be calculated into the grade point average. However, both grades will be recorded on the transcript. This action must be initiated by petition of the Director of Graduate Studies to the Graduate Dean. The Request for Repeat Option form can be found on the Graduate School's webpage, [http://www.research.uky.edu/gs/Forms/RepeatOption.pdf](http://www.research.uky.edu/gs/Forms/RepeatOption.pdf).

One exception is with the research or special projects series of courses. These 1-3 hour variable credit courses may be repeated up to three times in sequence for the purpose of completing the Capstone project or other research work for fulfillment of the degree. See the section on Course Descriptions for more information.

**Leave of Absence**
Effective fall 2009, if you are an enrolled graduate student at the University of Kentucky and you do not take courses for one or more semesters you will need to complete a new application and pay the application fee in order to be considered for readmission. In many instances you can avoid this requirement by requesting a “leave of absence”. In addition to avoiding the application process, this status will allow you to priority register in preparation for your return.

Procedurally, you should contact your Director of Graduate Studies (DGS) to seek approval for the leave before the beginning of the semester in question. If your request is approved, the DGS will contact your Graduate School admissions officer who will modify your record accordingly. You may request no more than two consecutive and four total semesters in leave of absence status.

International students considering a leave of absence are strongly encouraged to discuss their plans with the Office of International Affairs, Department of Immigration Services before making a formal request.

**How to Withdraw**
Students must formally withdraw from the university or receive failing grades in all courses enrolled. There are three methods to withdraw from the university:

- Go to Room 10, Registrar's Office, Funkhouser Bldg, and withdraw in person. Their hours of operation are 8:00 am until 4:30 pm Monday thru Friday. You must complete an Authorization to Withdraw card.
- Request withdrawal via fax. The date of the fax will serve as the official withdrawal date. The fax number is 859 257-7160 and should include full name, social security number, list of courses, term, date, signature, and phone number.
- Mail your request to the Registrar's Office. The address is, Student Records, Room 10, Funkhouser Building, University of Kentucky, Lexington, KY 40506-0054.

**Retroactive Withdrawal**
Students must contact the Admissions/Student Affairs office if they want to withdraw after the last official day. The retroactive withdrawal process has to be approved by Dean of the College of Public Health.

**Drop a Class**
Students should access myUK, [https://myuk.uky.edu/irj/portal](https://myuk.uky.edu/irj/portal), if you are dropping one or more classes but not all classes. The registrar's webpage, [http://www.uky.edu/registrar/](http://www.uky.edu/registrar/), will have the official dates for dropping a class.

**Transfer of Credit**
With approval from the MPH Director of Graduate Studies and the Graduate Dean, semester hours taken as a post-baccalaureate student in another program or at another institution, not to exceed a total of 9 credit hours, may be transferred into the MPH program. The grades earned must be A or B.

**Time Limit**
Students have six years from the first date of enrollment to complete the degree, and includes completing coursework and final project presentation/defense. Extensions of time to 8 years may be approved by the Dean of the Graduate School. Extensions up to 10 years must be approved by the Graduate Council. All extensions however must first be recommended by the Director of Graduate Studies for the MPH and the Associate Dean for Academic Affairs.
Academic Honesty

Plagiarism

Plagiarism is only one form of academic dishonesty, but it is also one of the most vexing. As with other acts of academic fraud, it is a violation based on fact rather than intent, and it is therefore critical that you are clear about the nature of plagiarism. The following definitions illustrate instances of plagiarism.

- Using a phrase, sentence, or passage from another person’s work without quotations marks AND attribution of the source. (Both quotations and attribution are necessary).
- Using text from a source that is rearranged paraphrased or discussed without attribution to the source;
- Submitting work where a central idea for a section/paragraph is taken from a source, written in the student’s own words and not cited in the text;
- Submitting work completed by another (including work that was accessed via the internet) copied in its entirety or modified without attribution to the source.
- Submitting your own work towards requirements in more than one class without the explicit prior permission of the instructors.

In addition to the aforementioned examples of plagiarism, the following websites provide additional information on plagiarism.¹

**Websites for additional information on Plagiarism:**
University of Kentucky: Academic Ombud’s website, [http://www.uky.edu/Ombud/](http://www.uky.edu/Ombud/)
The different forms of plagiarism: [http://www.uky.edu/Ombud/Plagiarism.pdf](http://www.uky.edu/Ombud/Plagiarism.pdf)

“Plagiarism: What is It and How to Recognize and Avoid It,” The Writing Center at Indiana University, [http://www.indiana.edu/~wts/pamphlets.shtml](http://www.indiana.edu/~wts/pamphlets.shtml)

“Principles Regarding Academic Integrity,” Northwestern University, [http://www.northwestern.edu/uacc/plagiar.html](http://www.northwestern.edu/uacc/plagiar.html)

Student Organizations

University of Kentucky Student Public Health Association (UKSPHA)
The University of Kentucky Student Public Health Association (UKSPHA) is a student affiliate of the Kentucky Public Health Association (KPHA). We are a nonprofit organization for students of the University of Kentucky College of Public Health and other individuals interested in public health. The chapter was founded on September 21, 2000. The student chapter consists of an executive board of elected officials including chairs for the public service and social committees.

UKSPHA is a student-run organization and basic governing unit of the University of Kentucky College of Public Health. UKSPHA’s role is to act as a liaison between students and faculty, promote student involvement to develop healthy communities, and represent the needs of students of the College of Public Health.

Any student at the University of Kentucky who is interested in public health issues can join regardless of their year in school or specific college they attend. Please contact any of the officers to obtain more information or email us at UKSPHA@gmail.com.

Membership fees include $10 chapter dues and $15 KPHA dues that are paid once a year. In addition students have the option to become members of the American Public Health Association (APHA), http://www.apha.org/about/membership/.

Delta Omega Society - Beta Gamma Chapter
Delta Omega is the honorary society for graduate students in public health. The Society was founded in 1924 at Johns Hopkins University, School of Public Health. There are currently 67 chapters throughout the United States and Puerto Rico. Membership in Delta Omega is by invitation to students with exceptionally high GPAs who also have promising leadership potential in Public Health. An induction ceremony is held at UK each spring for students during their graduating year. For information about the Beta Gamma Chapter at the University of Kentucky College of Public Health, contact Dr. Thomas Tucker, (859) 219-0773 x 225, Thomas.tucker@uky.edu.

Sigma Phi Omega - Gamma Mu Chapter
Sigma Phi Omega is the official national honor society for recognizing the excellence of those who study gerontology and/or aging, as well as of professionals in aging service. Gamma Mu is the University of Kentucky chapter. Sigma Phi Omega seeks to promote scholarship, professionalism, friendship, and services to older persons and to recognize exemplary attainment in gerontology/aging studies and related fields.

Gamma Mu sponsors department-wide events such as providing a team for the Alzheimer’s Memory Walk, hosting guest speakers, and participating in various university and community-based activities throughout the year. Gamma Mu also holds monthly meetings in the Graduate Center for Gerontology.

Membership is open to undergraduate and graduate students who are majoring or mining in gerontology/aging studies and related fields and who are in at least their second term of enrollment. Undergraduates must have a grade point average of at least 3.3 on a 4.0 scale, and graduate students must have at least a 3.5 GPA to be eligible for membership. Faculty, alumni, professional, and honorary memberships are also available. National dues for students
are $30 for the first year and $20 in subsequent years. New members receive a certificate, a lapel pin, a subscription to the Sigma Phi Omega Newsletter, and an invitation to participate in the national meeting and all activities of the Society. For more information about the local chapter, contact Dr. Pamela Teaster, pteaster@email.uky.edu. For national organization information, go to the Sigma Phi Omega website at http://www.sigmaphiomega.org/.

**University of Kentucky AcademyHealth Student Chapter**
AcademyHealth is the professional home for health services researchers, policy analysts, and practitioners, and a leading, non-partisan resource for the best in health research and policy. The Chapter was formed to acquaint students with the fields of health services research (HSR), public health systems and services research (PHSSR), and health policy, provide learning opportunities though interaction with health services researchers and health policy practitioners and help expand chapter members’ career opportunities. For more information visit www.academyhealth.org.

**UKHOPE (Health Occupation Professionals for Equality)**
UK Health Occupation Professionals for Equality (UK HOPE) is a lesbian, gay, bisexual, and transgender (LGBT) advocacy group for health professional students, faculty, and staff of the University of Kentucky medical campus.

UK HOPE was founded in the fall of 2008 and attracts a diverse membership of LGBT students, faculty, staff, and their allies. Being lesbian, gay, bisexual, or transgender is not a prerequisite to join. In fact, many of our members are not LGBT. The only requirement is a desire to promote equality for LGBT people, www.uky.edu/StudentOrgs/LGBTA or ul.lgbta@gmail.com.

**Kentucky Student Rural Health Association (KSRHA)**
The Kentucky Student Rural Health Association’s mission is to educate students and Kentuckians regarding rural health issues in the state by addressing pertinent public health issues through activities, workshops, advocacy initiatives, volunteering, and information distribution through multiple media outlets. In addition, these activities will support the mission of the Kentucky Rural Health Association, which represents the geographically diverse regions of Kentucky and a variety of for-profit and non-profit entities. For more information please send email to ky.srha@gmail.com.
Appendix II
Capstone Project
CPH 608

Appendix 1A  Proposed Capstone Project Description/Approval Form
Appendix 1B  Capstone Project Manuscript Guidelines
Appendix 1C  Capstone Process for Health Behavior Students
MPH Capstone Project

Philosophical Statement/Commitment
Each Master of Public Health (MPH) student must complete a culminating experience as the final requirement for the MPH degree. The culminating MPH experience is a Graduate School Plan B, non-thesis option capstone project. The capstone project represents the culmination of a major practice or research activity and consists of a formal written manuscript that will become part of the College of Public Health archives, a formal public presentation open to the college’s students and faculty, and an oral examination consisting of questions by the student’s committee. The capstone project is an opportunity to integrate coursework and field experience into a singular applied project that demonstrates proficiency. The project must be a well-reasoned contribution to knowledge in a discipline of public health, and should provide evidence of scholarly achievement.

The nature of the capstone project should be consistent with the career goals of the student, and it should be viewed as a demonstration that the MPH graduate is prepared to become a public health professional. The excellence in writing and oral presentation requirements reflects competencies that are essential to success in the field of public health. The written format for the capstone project is intended to familiarize students with the rigors of preparing manuscripts for professional journals.

Meeting deadlines is essential to a successful completion of the capstone project, oral final examination, and an acceptable written product.

The capstone project and oral examination are rigorous, but are not difficult tasks for a well-prepared and organized student. It is essential that the student carefully plan the process and work closely with their academic/departmental advisor, committee chair, committee members, and CPH administrative staff. Please consult with your academic/departmental advisor for specific procedures & timelines.

Project Proposal. When members of the committee have agreed to serve, the student will submit to them a proposal project. This is the Proposed Capstone Project Description/Approval Form (Appendix IA). Information on this form includes the tentative title of the project, stated purpose of the project, the reasons that this topic is relevant to public health and the signatures from each of the committee members. The student should not proceed with additional work on the capstone until the form has been approved by all committee members and submitted to the Admissions/Student Affairs office.

Institutional Review Board
After approval of these plans by the chair, the student must initiate the appropriate communications (and the respective paperwork process) with the Office of Research Integrity. Other than projects that review existing literature, having an approval letter from the ORI is solely the responsibility of the student. All capstone projects are subject to this step; only ORI can determine that a project is exempt.

The Office of Research Integrity (859-257-3138 or http://www.research.uky.edu/ori/) supports the institution in its efforts to promote ethical conduct of research and to comply with federal requirements for educating faculty and students about research misconduct regulations. In accordance with federal and institutional regulations, any undertaking in which a University faculty, staff, or student investigates and/or collects data on human subjects for research
purposes must be reviewed by either the Medical or Nonmedical Institutional Review Board (IRB). The IRBs are charged with assuring the protection of human subjects involved in research or related activities. The Medical IRB reviews research emanating from the Medical Center and the affiliated VA Medical Center, including the College of Public Health. The Boards have the authority to review, approve, disapprove or require changes in research activities involving human subjects.

All projects must conform to University of Kentucky Office of Research Integrity policies concerning the protection of human subjects. All projects must complete Institutional Review Board review or have confirmation that IRB review is not required.

The College of Public Health requires completion of this training prior to initiation of the capstone project research.

**The Final Examination**

The final exam typically lasts one hour. The first part is a 20-minute presentation of the project by the student with an emphasis placed on methods, findings, and implications for public health practice using the model of professional association meeting presentations. The second part is a 20-minute oral examination period, coordinated by the chair that consists of questions from the committee. If time allows, the audience will be invited to ask questions as well. The final 20 minutes will be reserved for private committee deliberation. The committee will evaluate the quality of the final written manuscript in the context of the oral presentation and the oral examination itself.

In the case of a pass, the student must successfully complete any remaining course requirements and will receive the Master of Public Health degree at the conclusion of the semester. If an Incomplete grade has been previously submitted for CPH 608, the grade will be changed to A.

If the judgment of the committee is that the student has not passed the examination, the student may be required to enroll the following semester to refine the project based upon comments in the evaluation form and repeat the examination process. Students will be permitted one additional attempt to pass the examination. If a passing grade is not received after the second attempt, the student will not receive the MPH degree.

Before the capstone is considered complete, the student will make changes to the capstone manuscript within ten days of receiving revision. The fully revised document is to be submitted to the committee prior to having the final copies printed. Requirements for the final product are described in the document entitled *Capstone Manuscript Guidelines (Appendix 1B)*.

**Submitting the Final Capstone Manuscript**

The student will submit a minimum of two copies of the final capstone manuscript and an electronic copy on a CD to the Office of Admissions/Student Affairs. A check for $20.00 (made payable to UKSPHA) must be submitted to cover the cost of binding and postage. (This amount could vary depending on the cost to the college). The college will retain one copy and the student will receive the other. Students may also provide additional copies for binding at a cost of $10.00 each. We are unable to accept credit cards.
Proposed Capstone Project Description/Approval Form
Master of Public Health Degree

Student Name ___________________________ ID Number____________________

Title of Proposed Capstone Project:

Primary Objective:

Secondary Objective (if applicable):

Proposed Methodology:

Source of Data (if applicable):

Anticipated Value to Public Health Practice:

Committee Chair ___________________________ Signature __________________

Committee Member ___________________________ Signature __________________

Committee Member ___________________________ Signature __________________

Student Signature ___________________________ Date ______________________

Additional Pages may be attached if space is insufficient.
Capstone Project Manuscript Guidelines

The College of Public Health adheres to the criteria of the International Committee of Medical Journal Editors (http://www.icmje.org). Authors must certify that they will take public responsibility for the content and provide any relevant data upon request. The author must also certify that she/he has contributed substantially to conception, design or analysis, and interpretation of the data, drafting or revision of content, and approval of the final version. The Author also must confirm that the content has not been published elsewhere and does not overlap or duplicate their published work.

Title page. The first page will be a title page including the capstone project title (a concise title that engages and stimulates interest), the author’s name including previously earned college degrees, the date of the final examination, and signature lines for each committee member including their names and academic degrees.

Text. Text is double spaced (including each line of the references), with no additional spaces between sections. Add subheadings as appropriate for clearer presentation and informed reading.


Biographical Sketch. Prepare the biographical sketch on a separate final page of text. The Sketch will be a brief one paragraph description of the author including: full name, previously earned academic degrees, relevant professional employment, professional association affiliations, and long term contact information including address, phone number, and e-mail address.

Tables and Figures. Arrange each table on a separate sheet, with a self-contained title that is fully comprehensible without reference to the text. Figures should include keys and should be either professionally drawn or lasers printed from a computer. Keep lettering large enough to read once reduced to print.

Acknowledgments. Prepare acknowledgments on a separate page. Also required is disclosure of all financial and material support. If human participants are involved, approval by an institutional review board and their informed consent is required. CPH adheres to the Declaration of Helsinki of the World Medical Association http://www.wma.net.

Capstone Manuscript Copies
The student will submit two copies of the final edited paper along with an abstract and two original signature pages, and an electronic copy on a CD to the Office of Admissions/Student Affairs. The student will also submit a check for $20.00 (amount may vary, depending on cost to College) to cover the costs of binding and postage for the two bound volumes. One copy is for the student and the other belongs to the College. Students may also arrange for binding of additional personal copies at a cost of $10 each. The Office of Admissions and Student Affairs asks students to submit the paper within 10 days after final corrections are made.

Paper Requirements
The paper on which the work is printed must meet the standards for durability and permanence suitable for a work that will reside in the Library and Archives. See American National Standards
*Permanence of Paper for Publications and Documents in Libraries and Archives.*

The requirements for paper are:
- white
- 8½ x 11 inches
- acid- and lignin-free, alkaline-buffered
- at least 20 lb. bond weight

Paper that does not meet these requirements, such as erasable and recycled paper, should not be used. Acceptable paper may be purchased at campus bookstores or other local copy and office stores.

The following 8 1/2 x 11 papers meet the standards listed above:
- PermaLife Bond (FoxRiver Paper Co.)
- Perma/Dur Buffered Bond (DISTRIBUTOR: University Products)
- Cranes Thesis Paper (DISTRIBUTOR: Crane and Company)
- Xerox Image Elite (DISTRIBUTOR: Xerox Corporation)
- Hollinger Alkaline Buffered Bond (DISTRIBUTOR: Hollinger Corporation)

**Methods of Printing**

**ACCEPTED**
- Laser printing (impact printing); minimum resolution of 300 dpi
- Professional-quality photocopying

**NOT ACCEPTED**
- Ink-jet or dot-matrix printing
- Printing with a resolution below 300 dpi
- No form of erasure fluid or correction tape is acceptable
- Duplex printing (one side only)

**Font**

The same typeface (font) must be used throughout the body of the manuscript. A standard font is required and should be consistent throughout the paper. This includes all page numbers, title pages, table of contents, lists, and table/figure headings. The only exceptions are tables/figures formatted using separate graphics. However, the table and figure headings must be formatted with the same font style and size as used in the main body of the manuscript. The minimum font size for the body of the paper is 12 point. The font size must be kept consistent throughout the body of the manuscript. A larger font size is acceptable for chapter titles and major subdivisions.

Recommended fonts: Times New Roman, Arial, Helvetica, Century Gothic
Margins
The following margins are required:

- top 1 inch
- bottom 1 inch
- left 1.5 inches
- right 1 inch

These requirements apply to all pages of the manuscript and any illustrative material to be bound into the paper. (See section on oversize materials.)

Note: The photocopying process enlarges text size up to 2% with each reproduction. For the submission of paper pages that have been photocopied once, it is recommended that the margins of the original document be increased to:

- top 1.1 inches
- bottom 1.1 inches
- left 1.6 inches
- right 1.1 inches

Line Spacing
Double spacing is to be used for the body of the manuscript; single line spacing is not acceptable. The spacing of footnotes, bibliographic entries, long quoted passages, etc., should conform to the guidelines of a style manual consistent with scholarly practice in the discipline.
SAMPLE TITLE PAGE

(Title)
STRATEGIC NETWORKS FOR PUBLIC HEALTH SERVICES
IN RURAL AREAS OF KENTUCKY

CAPSTONE PROJECT PAPER

A paper submitted in partial fulfillment of the requirements for the degree of
Master of Public Health
in the
University of Kentucky College of Public Health
By
Sherrie Elaine Human
Lexington, Kentucky (Home town)

Lexington, Kentucky
May 18, 2xxx (Presentation date)

(Signature lines, List all committee members)

_______________________________
F. Douglas Scutchfield, M.D., Chair

_______________________________
William Pfeifle, Ed.D

_______________________________
Richard R. Clayton, Ph.D.
Appendix 1C

The MPH Capstone Process for Health Behavior

1. By the beginning of the fall semester of year 2 (or prior to enrolling in CPH 647, Research Methods), each student should identify a subject area for the capstone. Students should discuss this decision with their academic advisor and/or any other HB faculty member.
   - Once a general topic is selected, students will identify and meet with a HB faculty member who has content expertise in that subject area. Student and faculty should discuss the student’s research interests and decide if the faculty member is the most appropriate to serve as capstone chair. The capstone chair will discuss with the student the state of research in the specific subject area, available sources of data on the subject, and the specific research question the student will address in the capstone paper.
   - Each student should, with the advice of HB faculty, identify a journal appropriate for publishing the capstone. The capstone must then be prepared following the journal’s submission guidelines (which must be provided to the capstone chair) for a full research article.

2. While taking CPH 647, students are expected to refine and develop their research question. This course focuses on issues of research design and scientific writing; students should continue to refer to their capstone chair for advice on topical content.

3. Most students will proceed to take CPH 608 (HB section), which will focus on data analysis and writing the capstone.
   - In very limited cases, students may request that a faculty member supervise an independent study version of CPH 608. This is only appropriate when the nature of the capstone project requires considerably different guidance than that offered in the standard capstone class. This option is only available with the consent of the instructor and the departmental chair.

4. Capstone defenses
   - All capstones will be scheduled during a one week period in the spring semester. After receiving clearance from the instructor of CPH 608 and following the guidelines established by the College of Public Health and the University, students will coordinate with the departmental AA and to schedule their capstone. During capstone presentation week, two HB faculty members will be assigned by the department to each committee, along with the capstone chair. The capstone chair (who has content expertise in the capstone topic) is the only member of the committee selected by the student; the other 2 members of the capstone examination committee will be determined by the department.
   - If either the instructor of CPH 608 or the capstone chair does not feel the student is likely to be prepared for the defense, they may, at their discretion, delay the capstone defense until the following fall semester. Students may need to enroll in additional credit hours for the completion of the capstone in the fall.