Environmental & Occupational Health Sciences

New Student Orientation Handbook

Fall 2011
A Message from the Program Head

Welcome to the Environmental and Occupational Health Sciences (EOHS) graduate program!

I know choosing the right graduate program was an important decision, and our faculty and staff accept the challenge of providing you with an excellent educational experience. This is central to our mission and teaching philosophy, which are based on using an interdisciplinary, collaborative academic approach conducive to attracting and retaining the highest quality faculty, students and staff.

During your first semester, I encourage you to take some time to get to know our Program and its various activities. To get you started on the right foot, our staff has prepared an initial orientation package, specific to the Program, containing useful information. Don’t hesitate to get in touch with any of us directly for further details.

We are delighted you have chosen The University of Texas School of Public Health for your graduate training. Feel free to contact me with any questions; my direct phone line is (915) 747-8514.

Sincerely,

Kristina D. Mena, MSPH, PhD
Associate Professor
Epidemiology, Human Genetics, and Environmental Sciences
University of Texas Health Science Center at Houston
School of Public Health
(915) 747-8514
FAX: (915) 747-8512
kristina.d.mena@uth.tmc.edu
INTRODUCTION

Environmental and Occupational Health Sciences (EOHS) is the field of study that deals with the (1) anticipation, identification and characterization of potentially harmful physical, chemical, and biological agents in community and workplace environments; (2) identification and study of the relevant pathways of exposure; (3) assessment of the effects of such agents on the environment and human health; and (4) development of interventions to prevent or ameliorate problems associated with environmental or occupational contaminants. Biological, genetic, psychological, and social factors are also important determinants of environmental and occupational health.

The Environmental and Occupational Health Sciences Program offers the PhD academic degree, and the professional degrees, MPH and DrPH. The academic degree is designed to train professionals to develop both in-depth knowledge in a particular specialty area and broad understanding of the complexity inherent in environmental problems, with a focus on research. The professional degrees focus upon public health practice related to prevention, assessment, and control of occupational and environmental exposures, and injuries and illnesses, which constitute major problems not only nationally but worldwide. Areas of faculty teaching and/or research interest in the Program include: indoor and outdoor air quality, industrial hygiene, chronobiology, environmental microbiology, injury control, medical geography, occupational health, occupational medicine, toxicology, hydrology, and exposure assessment.

RESEARCH CENTER

The Southwest Center for Occupational and Environmental Health is located within the Program in Environmental and Occupational Health Sciences. More
Information may be found at http://www.sph.uth.tmc.edu/tabDetail.aspx?id=13343&libID=13344.

VISION:
The Program in Environmental and Occupational Health Sciences will become an internationally recognized, cohesive academic unit that makes a difference in the health, safety and well-being of workers and the global community through major contributions in graduate and professional education, basic and applied research, and the provision of environmental science, environmental health and occupational health expertise, through sound science and an interdisciplinary approach to this field of public health.

MISSION:
The mission of the Program in Environmental and Occupational Health Sciences is to provide high-quality education, state-of-the-art research and service that advance human health by addressing the current and future environmental and occupational health challenges facing workers and the global community.

GOALS:
To accomplish its mission, the Program in Environmental and Occupational Health Sciences must:

✓ respond to societal needs for highly trained health professionals and scientists who can address current and emerging environmental and occupational threats to human health
✓ provide the highest quality graduate education to current and future environmental and occupational health practitioners, teachers and scientists
✓ generate new knowledge, through basic and applied research, as it relates to the recognition, anticipation, evaluation, control and prevention of the adverse effects on health of environmental and occupational exposures and risk factors
✓ meet the continuing education and training needs of the professional community through educational outreach and service in environmental and occupational health
✓ provide public health and clinical expertise that addresses concrete environmental and occupational health needs of the community
✓ provide an infrastructure and an interdisciplinary, collaborative academic milieu conducive to attracting and retaining the highest quality faculty, students and staff in order to accomplish the mission of the Division.
EOHS Program Leadership Team

Program Head
Kristina Mena, MSPH, PhD

Admissions and Academic Coordinator
Lawrence W. Whitehead, PhD, CIH

Director, Southwest Center for Occupational & Environmental Health
Elaine Symanski, PhD
EOHS Division Faculty

Benjamin C. Amick, PhD
Professor, Health Promotion and Behavioral Sciences

Office: RAS E 1015
Phone: 713.500.9496
benjamin.c.amick@uth.tmc.edu

Research Interests: Epidemiology of musculoskeletal injuries; injury prevention and control; office ergonomics; systematic reviews; health disparities; organizational policies and practices; health and productivity; work organization and health; work stress

Potential Student Projects: There are multiple on-going projects Dr. Amick is working on in both the US and Canada where students are welcome to engage in data analysis: a Non-Ranomized Field Experiment on the Effectiveness of a Highly Adjustable Chair and Training on MSD Injury Reduction and Productivity Improvement, an epidemiological Study of the MSDs among College Students, a study of the impact of carpal tunnel surgery on return to work, a randomized controlled trial of in-person office ergonomics training compared to in-person training, a Pilot test of the role of Pictograms in increasing knowledge and supporting behavior change for MSD prevention. Students interested in conducting systematic reviews of the effectiveness of occupational health and safety interventions should speak with Dr. Amick. Students also can have the opportunity to engage in the development of research projects. We are currently engaged in the following three projects: Work disability, return to work and cancer survivorship; Work disability return to work and the role of post-surgical infections; Development of an integrated health promotion/health protection program for City of Houston employees.

Courses Taught: Social and Behavioral Aspects of Occupational and Environmental Health; Social Epidemiology and Social Justice; Work Organization Epidemiology; Society and Health, Research Design and Analysis.

Keith D. Burau, PhD
Associate Professor, Biostatistics

Office: RAS W 1042
Phone: 713.500.9472
keith.d.burau@uth.tmc.edu

Research Interests: Cosinor Analysis; Geographic Information System Applications; Data Management

Potential Student Projects: SAS Programming Projects

Cynthia L. Chappell, PhD
Professor, Division of Epidemiology, Human Genetics and Environmental Sciences

Office: RAS W 118A
Phone: 713.500.9026
cynthia.l.chappell@uth.tmc.edu

Research Interests: Cryptosporidium; Acanthamoeba; Trypanosoma cruzi; Chagas’ Disease; protozoan parasites; host-parasite interaction

Potential Student Projects: Data available for secondary analysis--appropriate for master’s studies.

Courses Taught: Introduction to Master’s Studies in PH. Guest lectures in: Public Health Microbiology I; Public Health Microbiology II; Immunology

Sharon P. Cooper, PhD
Professor, Division of Epidemiology, Human Genetics and Environmental Sciences and Regional Dean, San Antonio Region Campus

Office: San Antonio
Phone: 210.562.5508
sharon.p.cooper@uth.tmc.edu

Research interests: Occupational injury, surveillance of injury and illnesses in farm workers, working adolescents

Courses Taught: PH 2998 Occupational Epidemiology

George L. Delclos, MD, MPH, PhD
Professor, Division of Epidemiology, Human Genetics and Environmental Sciences
Medical Director, The University of Texas Health Services

Office: RAS W 1018
Phone: 713.500.9459
george.delclos@uth.tmc.edu

Research Interests: Occupational hazards of healthcare workers; occupational and environmental respiratory disease; international aspects of occupational health

Potential Student Projects: Access to asthma databases

Courses Taught: Clinical Occupational Medicine; Occupational Health Field Trips; Foundations of Occupational and Environmental Health Sciences; Occupational Medicine Practice
Herbert L. Dupont, MD  
Professor, Division of Epidemiology, Human Genetics and Environmental Sciences  
Office: RAS W 702  
Phone: 832.355.4122  
herbert.l.dupont@uth.tmc.edu  

Research Interests: Acute diarrhea (travelers’ diarrhea and *Clostridium difficile* diarrhea and colitis, irritable bowel syndrome)  
Potential Student Projects: Working with samples or data collected in international field studies or at St. Luke’s on *C. difficile* diarrhea  
Courses Taught: Lecture in epidemiology and infectious diseases courses

Robert John Emery, DrPH  
Associate Professor, Division of Epidemiology, Human Genetics and Environmental Sciences  
Vice President Safety, Health, Environment and Risk Management  
Office: RAS W 1036  
Phone: 713.500.9469  
robert.j.emery@uth.tmc.edu  

Research Interests: Environmental Health & Safety; Radiation Safety; Hazardous waste management; compliance programs; worker perceptions; occupational reproductive health  
Potential Student Projects: Management of radiological emergencies, public health preparedness, and any of a series of issues that emerge as part of the EH&S support activities for the UTHSC-H  
Courses Taught: Co-instructor in: Health & Safety Program Management, Public Health Risk Communications, Physical Agents, Workplace Safety Seminar Series

Ralph F. Frankowski, PhD  
Professor, Biostatistics  
Office: RAS W 1008  
Phone: 713.500.9320  
ralph.f.frankowski@uth.tmc.edu  

Research Interests: Injury Prevention and Control; Spinal Cord Injuries (SCI); Traumatic Brain Injuries (TBI)  
Potential Student Projects: SCI/TBI incidence & prevalence studies; SCI/TBI acute care studies  
Courses Taught: Intermediate Biostatistical Methods
David Gimeno Ruiz de Porras, PhD  
Associate Professor, Division of Epidemiology, Human Genetics and Environmental Sciences  
Office: San Antonio  
Phone: 210.562.5511  
david.gimeno@uth.tmc.edu  

Research Interests: Occupational and social epidemiology; work organization and health; work stress; health and productivity; social inequalities in health and aging; multilevel statistical models applied to occupational health; cross-national epidemiological studies  
Potential Student Projects: Work organization and health, international data analysis  
Courses Taught: Applied Epidemiological Analysis, Introduction to Research Methods

Carl S. Hacker, PhD, JD  
Associate Professor, Management, Policy and Community Health  
Office: RAS W 312  
Phone: 713.500.9185  
carl.s.hacker@uth.tmc.edu  

Research Interests: Urban ecology, child health, and the built-environment ecological succession on vegetated roof tops, public health law and policy, law and science  
Potential Student Projects: Comparative studies of energy and materials consumption and waste streams of selected organizations  
Courses Taught: Introduction to Population and Environmental Assessment; Public Health Law; Introduction to Administration Law; Law at the Line

James E. Hixson, PhD  
Professor, Division of Epidemiology, Human Genetics and Environmental Sciences  
Office: RAS W 422  
Phone: 713.500.9834  
james.e.hixson@uth.tmc.edu  

Research interests: Molecular genetics of common diseases including cardiovascular disease, obesity, and diabetes; SNP discovery and analysis in population-based studies of common diseases; allelic effects on gene expression and protein function related to common diseases and measured risk factors  
Potential Student Projects: Student projects will involve molecular biology laboratory activities, as well as epidemiological analyses to examine the effects of genetic variants on common diseases in population-based cohorts  
Courses Taught: Molecular and Cellular Approaches in Human Genetics
Zhi-Dong Jiang, MD, DrPH
Assistant Professor, Epidemiology

Office: RAS E 739  
Phone: 713.500.9371  
zhi-dong.jiang@uth.tmc.edu

Research Interests: Epidemiology of travelers’ diarrhea; genetic factors for acute diarrhea; enteric pathogens including Diarrheagenic E. coli, Noravirus and C. difficile infection

Potential Student Projects: Biological Markers, Digestive Diseases and Disorders, Disease Prevention, Escherichia Coli, Foodborne Diseases, Inflammation, Inflammatory Bowel Disease

Courses Taught: Disease: Natural History; Prevention and Control

Thomas A. Mackey, MPH, PhD
PARTNERS Professor of Clinical Nursing, Environmental & Occupational Health Sciences and Associate Dean for Practice - School of Nursing  
Director, University of Texas Health Services

Office: UCT 3250  
Phone: 713.500.3250  
thomas.a.mackey@uth.tmc.edu

Research Interests: Quality improvement and changes in diabetic patient outcomes in an academic nurse practitioner primary care practice and manage patient violence; nurse practitioner clinic based practices

Potential Student Projects: Cost analysis of providing primary care services; Marketing issues related to primary care; Practical applications of the electronic medical record in primary care. Impact of primary care delivered by nurse practitioners on communities

Courses Taught: Occupational Health Nursing I and II; Field Trips in Occupational Health

Kristina D. Mena, MSPH, PhD
Associate Professor, Environmental & Occupational Health Sciences

Office: El Paso  
Phone: 915.747.8514  
Kristina.D.Mena@uth.tmc.edu

Research Interests: Water Quality; Food Safety; Microbial Risk Assessment

Potential Student Projects: Microbial Water/Food/Household Quality studies; Water Consumption Study; Microbial Risk Assessment projects; Studies related to laboratory detection methods for microbes

Courses Taught: Risk Assessment for Environmental Health; Overview of Environmental Health; Environmental Microbiology; Environmental Risk Assessment
Jimmy L. Perkins, PhD  
Professor, Division of Epidemiology, Human Genetics and Environmental Sciences  
Office: San Antonio  
Phone: 713.500.5502  
perkinsjl@uthscsa.edu  

Research Interests: Inhalation and Dermal Exposure Assessment and Risk Assessment  

Potential Student Projects: Workplace exposure assessment; environmental concentration data analysis; chemical protective clothing effectiveness  

Courses Taught: Overview Of Environmental Health; Environmental Risk Assessment

Lisa Pompeii, PhD  
Assistant Professor, Division of Epidemiology, Human Genetics and Environmental Sciences  
Office: RAS E 617  
Phone: 713.500.9474  
lisa.pompeii@uth.tmc.edu  

Research Interests: Occupational epidemiology, injury epidemiology, pregnancy health and work, health disparities  

Potential Student Projects: Graduate student to assist with projects involving the Houston Tunnel Project which is a blood pressure management study among Houston workers with hypertension.

Courses Taught: Occupational Health Nursing I
Arnold J. Schecter, MD, MPH
Professor, Division of Epidemiology, Human Genetics and Environmental Sciences

Office: Dallas
Phone: 214-336-8519
arnold.schecter@utsouthwestern.edu

Research Interests: Dioxins from Agent Orange in Vietnamese and American Vietnam veterans and others exposed to dioxins. Health effects of dioxins and related chemicals such as PCBs. Brominated flame retardants and other organic pollutants (POPs) in nursing mothers' milk, in blood, in food, in environmental samples including computer case wipings, vacuum sweeping, air. Methods of chemical preservation of blood instead of deep freezing. Biomarkers of exposures and health effects associated with various persistent organic pollutants such as dioxins, dibenzofurans, PCBs, and certain brominated flame retardants such as PBDEs as well as related compounds such as Bisphenol A, PFOS and PFOA, pesticides and phthalates. Levels of these compounds in humans, food and the environment.

Potential Student Projects: Work on ongoing projects such as a study with CDC on levels of brominated flame retardants and other POPs in children and in nursing mothers' milk, blood, urine, in vacuum sweepings, and evaluation of a questionnaire focusing on sources of intake. Dioxins from Agent Orange in Vietnam. Individual Studies for dioxins and Agent Orange, levels in people in the USA and Vietnam, food, epidemiological studies and reviews.

Courses Taught: Overview of Environmental Health; Environmental Health Site Visits, Topics of Infectious Diseases, Clinical Occupational Medicine

Gene D. Schroder, PhD
Associate Professor, Division of Epidemiology, Human Genetics and Environmental Sciences

Office: RAS W224
Phone: 713.500.9242
gene.d.schroder@uth.tmc.edu

Research Interests: Ecosystem structure and dynamics; environmental contaminating rodent ecology

Courses Taught: PHW2120 Man's Impact on the Environment
Ken Sexton, ScD, MBA
Professor, Division of Epidemiology, Human Genetics and Environmental Sciences

Office: RAS E1033
Phone: 713.500.9460
ken.sexton@uth.tmc.edu

Research Interests: Human exposure analysis; health risk assessment; environmental risk management; environmental health policy; business environment interactions

Courses Taught: Environmental & Occupational Health Policy, Overview of Environmental Health, Contemporary Issues in Environmental Health

Elaine Symanski, PhD, MPH
Associate Professor, Division of Epidemiology, Human Genetics and Environmental Sciences

Office: RAS W 642
Phone: 713.500.9238
elaine.symanski@uth.tmc.edu

Research Interests: Development of quantitative methods for modeling occupational and environmental exposures; retrospective exposure assessment; investigation of health effects associated with occupational and environmental exposures

Courses Taught: Methods for Exposure Assessment; Epidemiology III

Mary Ann Smith, PhD
Assistant Professor, Division of Epidemiology, Human Genetics and Environmental Sciences
Associate Dean for Student Affairs

Office: RAS W214
Phone: 713.500.9236
mary.a.smith@uth.tmc.edu

Research Interests: Mechanisms of toxicant-induced renal injury; Adverse effects of environmental contaminants and therapeutic agents; Toxicology issues that relate to Environmental Justice

Potential Student Projects: Determined after individual discussions

Courses Taught: Toxicology I: Principles of Toxicology; Toxicology II: Toxic Agents and the Environment; Contemporary Topics in Toxicology
Thomas H. Stock, PhD, MPH
Associate Professor, Division of Epidemiology, Human Genetics and Environmental Sciences
Office: RAS W 622
Phone: 713.500.9279
thomas.h.stock@uth.tmc.edu

Research Interests: Assessment of community and occupational pollutant exposures; characterization of major determinants of indoor and outdoor air quality; evaluation of air monitoring and industrial hygiene methods

Potential Student Projects: Recent work has focused on use of passive monitoring for assessing exposures and spatial variation of air toxics

Courses Taught: Primary Instructor for The Air Environment and Environmental Sampling and Analysis; core faculty for Recognition of Environmental and Occupational Health Hazards

Kim Waller, PhD, MPH
Associate Professor, Division of Epidemiology, Human Genetics and Environmental Sciences
Office: RAS E 619
Phone: 713.500.9155
kim.waller@uth.tmc.edu

Research Interests: Preventable risk factors for birth defects; low birth weight; fetal death; birth defects; screening programs; association of serum biomarkers (measured early in pregnancy) and pregnancy outcome

Courses Taught: Epidemiology IV; Perinatal Epidemiology

Lawrence W. Whitehead, PhD, CIH
Associate Professor, Division of Epidemiology, Human Genetics and Environmental Sciences
Office: RAS W 1016
Phone: 713.500.9458
lawrence.whitehead@uth.tmc.edu

Research Interests: Exposure assessment; occupational epidemiology; environmental health, industrial noise

Courses Taught: IH1: Fundamentals of Industrial Hygiene; Environmental and Occupational Health Controls; Occupational Health Field Trips; Occupational Safety, Foundations of Occupational and Environmental Health Sciences
EOHS Program Administrative Staff

Masoud Afshar
EOHS
Research Engineer
Phone: 713-500-9338
Office: RAS W640
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masoud.afshar@uth.tmc.edu

Marice Barahona
SWCOEH
Administrative Assistant II
**Marice handles general questions about EOHS, general information, procedures, pilot projects and occupational medical residency programs. She also coordinates the Journal Club, which students can attend.**

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Research Associate
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Fax: 713-500-9442
cara.n.newton@uth.tmc.edu
EOHS COMPETENCIES FOR MAJORS

Graduate Student placing Passive Air Sampler

MPH

Competency 1 (Knowledge oriented)
Describe environmental health hazards, propose strategies for the prevention and/or control of such hazards, and describe gaps in knowledge and in the approaches to solving environmental health problems.

Competency 2 (Practice-oriented)
Implement strategies for mitigating environmental health risks.

Competency 3 (Research-oriented)
In collaboration with or under the supervision of senior-level scientists or administrators, identify an important environmental health problem, carry out a study to address the problem, and draw conclusions from the results.

Competency 4 (Policy-oriented)
Recognize the processes by which policies are developed to regulate environmental hazards.

Competency 5 (Communication-oriented)
Communicate effectively about environmental health hazards and strategies for mitigating risks.

The MPH also has competencies in the other divisions and cross-cutting competencies to be met. These may be viewed in the MPH Competencies form under ‘Current Students’, then ‘Student Forms’ on the SPH web page.
DrPH

**Competency 1** *(Research-oriented)*

Identify and critically evaluate an environmental health problem, and develop and implement a research study using appropriate design and resources to produce new and significant knowledge in the professional practice of environmental health.

**Competency 2** *(Critical/Analytical Thinking-oriented)*

Evaluate current knowledge and key assumptions in environmental health sciences and other areas to advance the development of the field.

**Competency 3** *(Education-oriented)*

Teach academic and professional audiences.

**Competency 4** *(Communication-oriented)*

Communicate effectively to peers, policy makers and the lay public.

**Competency 5** *(Management/Administration-oriented)*

Establish and manage an environmental health program.

**Competency 6** *(Policy-oriented)*

Analyze, advocate, implement, and evaluate policy to reduce environmental health risks.

PhD

**Competency 1** *(Research-oriented)*

Identify and critically evaluate an environmental health problem, and develop and implement a research study using appropriate design and resources to produce new and significant knowledge.

**Competency 2** *(Critical/Analytical Thinking-oriented)*

Evaluate current knowledge and key assumptions in environmental health sciences and other areas to advance the development of the field.

**Competency 3** *(Education-oriented)*

Teach academic and professional audiences.

**Competency 4** *(Communication-oriented)*

Communicate the results of research findings and environmental health concepts to peers, policy makers and the lay public.

**Competency 5** *(Management/Administration-oriented)*

Establish and manage an independent research program in environmental health sciences.
Information for new students

1. HOW DO I CONTACT MY ADVISOR?
The name and telephone number of your advisor was included in your acceptance letter. Contact information for all faculty may also be found by going to SPH homepage » Faculty & Staff or http://www.sph.uth.tmc.edu/facultyList.aspx?id=12965&type=division&filter=ehges. We encourage you to contact your advisor before or during the orientation/registration period to set-up an appointment to discuss course selection.

2. HOW DO I FIND THE SPH SCHEDULE OF CLASSES OR COURSE INFORMATION?
The schedule and course information are available from the Office of Student Affairs. You can find the schedule of classes and course information on the web go to SPH homepage » Academics » Catalogs & Course Information or http://www.sph.uth.tmc.edu/uploadedFiles/Website/Academics/Course_Information/Fall2011Courses.pdf

3. HOW DO I SELECT COURSES?
Your advisor will help you to select courses for your first semester. Ask your advisor about the courses suggested for the division as well as core courses for other disciplines. Consider your interests and capabilities and select your courses accordingly. You will also be assisted with course selection during orientation.
4. **HOW DO I REGISTER?**
   The Schedule of Classes contains registration information and instructions. The easiest method of registration is UTLINK Web Service through the website http://utlink.uth.tmc.edu. Click on “Students, Applicants and Alumni” link to begin registration. To enter the registration system, you will need your Social Security number or Admission number (“A-number”, given at the time of admission and starts with an A) and your PIN number. Your PIN is a four-digit number comprised of the year and month of your birthday. For example, a student born in January 1975 will have PIN 7501. You can change your PIN later for security.

5. **WHAT ARE THE DEADLINES FOR REGISTRATION AND ADDS/DROPS OF COURSES?**
   Deadlines for registration, payments, and last dates for adds/drops are found by going to SPH homepage » Quick links » Registrar » Registration Schedule or http://registrar.uth.tmc.edu/Registration/Acad_Reg.html#Registration_Schedule. You can add or drop courses by going online through UTLINK services http://utlink.uth.tmc.edu.

6. **HOW DO I GET A SCHOOL EMAIL ADDRESS?**
   During orientation, you will be given a school email address and an initial password. You will need to change your initial password for security reasons. You can access school email from www.sph.uth.tmc.edu/email.

7. **WHERE IS THE STUDENT AFFAIRS OFFICE?**
   The Student Affairs Office is located on the second floor of the SPH building (also known as the Reuel A. Stallones building or RAS) on the east side. The telephone number is 713-500-9032.

8. **WHERE IS THE INTERNATIONAL AFFAIRS OFFICE?**
   The International Affairs Office is located in Suite 130 on the first floor of the University Center Tower building, 7000 Fannin Street. The telephone number is (713) 500-3189.

9. **WHERE IS THE COMPUTER LAB?**
   The computer lab is in the basement of the SPH on the east side. You will need your school ID to enter the computer lab. (At orientation, you will be told how to obtain your ID.) Workshops and classes are available free in the computer lab every semester. You can contact Paige O’Neal for a list of these classes and a schedule at 713-500-9129 or via email Courtney.p.oneal@uth.tmc.edu.
10. **WHERE IS THE SPH LIBRARY?**
   The school library is on first floor of SPH on the east side. The library website is http://www.sph.uth.tmc.edu/library. From this site, you can access the library catalog, electronic journals, online databases, other libraries, and many other resources. For more information you may contact Helena Vonville at helena.m.vonville@uth.tmc.edu or by phone at 713-500-9131.

11. **HOW DO I CONTACT STAFF/FACULTY?**
   Contact information for faculty and staff can be found at http://peopledirectory.uth.tmc.edu/peopledirectory/index.jsp

12. **HOW CAN I FIND A LIST OF HELPFUL PHONE NUMBERS?**
   Auxiliary Enterprises .......................................................... 713-500-8400
   Bookstore ................................................................. 713-500-5860
   UT Shuttle services ..................................................... 713-500-3405
   UT Health Services .......................................................... 713-500-3267
   University Housing .......................................................... 713-500-8444
   University Travel .......................................................... 713-500-5875
   International Affairs .................................................. 713-500-3176
   UT Police (Emergency) ................................................. 713-500-4357
   (Non-Emergency) ...................................................... 713-792-2829
   Registrar ................................................................. 713-500-3333
   Student Counseling .................................................. 713-500-3113
   Student Financial Aid .................................................. 713-500-3860
   Bursar’s Office ........................................................... 713-500-3088

   The UT-Houston Health Science Center Telephone Directory is available at:
   http://peopledirectory.uth.tmc.edu/peopledirectory/index.jsp.

13. **HOW CAN I FIND INFORMATION ABOUT STUDENT SHUTTLES AND OTHER BUS SERVICES AVAILABLE?**
   You can get information about UT-Houston shuttles at http://ae.uth.tmc.edu/parking/index.html. For questions about the UT-Houston shuttle, call (713) 500-3405.

   The Texas Medical Center also provides free METRO shuttle service between most buildings in the Medical Center. Information about the TMC Metro shuttle can be found at http://www.ridemetro.org/SchedulesMaps/Pdfs/tmc_shuttles.pdf.

   For more information about the TMC METRO Shuttle, call (713) 739-3767 or (713) 635-4000.
METRO, the Metropolitan Transit Authority of Harris County, provides bus service and a growing light rail system to Houstonians. Check their website at http://www.hou-metro.harris.tx.us for route, schedule, and fare information if you plan to use METRO for transportation to and from school.

14. **HOW CAN I FIND INFORMATION ABOUT PARKING IN THE MEDICAL CENTER?**
Parking is available in front of the SPH building; the first fifteen minutes is free. Visitor parking is also available in the South Extension Lot - also known as the “Brown Lot”. The South Extension Lot is on William C. Harvin Blvd. between S. Braeswood and Old Spanish Trail. The lot is a short walk from SPH, or TMC shuttle service is available.


Contract parking is available from TMC. You can obtain an application from TMC contract parking office at 1151 W. Holcombe Blvd. (northwest corner of Holcombe and Bertner, street level). Hours: M-F 8 am - 5 pm, Sat-Sun 10 am - 2 pm. TMC Parking Customer Relations: 713-791-6161, M-F 7am -11 pm.

15. **HOW CAN I FIND OUT ABOUT THE RESEARCH INTERESTS OF FACULTY MEMBERS?**
For EHGES faculty, check the Faculty listings at [http://www.sph.uth.tmc.edu/facultyList.aspx?id=12965&type=division&filter=ehges](http://www.sph.uth.tmc.edu/facultyList.aspx?id=12965&type=division&filter=ehges) and click on a faculty member’s name; you will be redirected to their profile.

16. **HOW DO I SEARCH FOR AN INTERNSHIP OR PRACTICUM?**
All MPH and DrPH students are required to complete a practicum or internship as part of the requirements for the degree. You can find internship opportunities at [http://www.sph.uth.tmc.edu/practica/](http://www.sph.uth.tmc.edu/practica/).

17. **HOW LONG DOES IT USUALLY TAKE TO COMPLETE A MPH DEGREE? DrPH? PhD?**
Typically, full time students complete the MPH program within 1.5-3 years. Students typically will complete the DrPH or PhD program in 3-5 years. The time required varies, depending on individual goals, course load, and progress on their thesis, outside activities and responsibilities, and other factors.

18. **WHERE CAN I FIND INFORMATION ABOUT ACADEMIC SCHOLARSHIPS?**
Scholarships are available for students. For details, please visit [http://www.sph.uth.tmc.edu/current-students/financial-assistance/](http://www.sph.uth.tmc.edu/current-students/financial-assistance/). Please refer to the listings on the following page.
## SCHOLARSHIP INFORMATION

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Type</th>
<th>Donor Intent/Criteria</th>
<th>Award</th>
<th>Selection Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reuel A. Stallones Memorial Scholarship Fund</td>
<td>Endowment</td>
<td>Must be a continuing SPH student. Award based solely on merit.</td>
<td>Frequency: Annual Awards: 1 Amount: $500.00</td>
<td>Application</td>
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<tr>
<td>Established: 1986</td>
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<tr>
<td>Richard K. Severs Endowed Scholarship Fund</td>
<td>Endowment</td>
<td>Award must be to a continuing Environmental Sciences student. Award based solely on academic merit.</td>
<td>Frequency: Annual Awards: 1 Amount: $500.00</td>
<td>Application</td>
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<td>Established: 1984</td>
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<tr>
<td>Susanne M. Savely Environmental Sciences Scholar Fund</td>
<td>Non-Endowment</td>
<td>Female SPH student. Award based on academic merit.</td>
<td>Frequency: Annual Awards: 1 Amount: $500.00</td>
<td>Application</td>
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<tr>
<td>Established: 2000</td>
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<tr>
<td>Texas Water Pollution Control Endowed Scholarship Fund</td>
<td>Endowment</td>
<td>Continuing Environmental Sciences students who have successfully completed a minimum of one semester with background, training, and potential for excellence in the field of Environmental Sciences. Based on academic merit.</td>
<td>Frequency: Annual Awards: 1 Amount: $500.00</td>
<td>Application</td>
</tr>
<tr>
<td>Established: 1991</td>
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<tr>
<td>Lauren and Adam Strauss Endowed Scholarship Fund</td>
<td>Endowment</td>
<td>Award must be to a continuing student. Award based on merit and need.</td>
<td>Frequency: Annual Awards: 1 Amount: $1000.00</td>
<td>Application</td>
</tr>
<tr>
<td>Established: 1992</td>
<td></td>
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<tr>
<td>SPH Student Assistance Fund</td>
<td>Non-Endowment</td>
<td>To provide financial support for SPH students to travel to professional meetings or to cover thesis/dissertation expenses.</td>
<td>Frequency: Annual Awards: 4 Amount: $250.00</td>
<td>Application</td>
</tr>
<tr>
<td>Scholarship Name</td>
<td>Endowment</td>
<td>Description</td>
<td>Frequency</td>
<td>Awards</td>
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</tr>
<tr>
<td>Marcus M. Key Scholarship in Occupational &amp; Environmental Health Fund</td>
<td>Endowment</td>
<td>Continuing student who has completed a minimum of one semester or a new student with exceptional background, training and potential for excellence in the field of Occupational Health. Must be in Occupational Health module or Environmental Sciences discipline. Must be accompanied by two letters of recommendation. Award based solely on academic merit.</td>
<td>Annual</td>
<td>1</td>
</tr>
<tr>
<td>Roger Florky Memorial Scholarship Fund</td>
<td>Endowment</td>
<td>Must be an Industrial Hygiene or Occupational Health student. Student must partially support his/her education through employment. Award is based on academic merit and need.</td>
<td>Annual</td>
<td>1</td>
</tr>
<tr>
<td>Leslie A. Chambers Scholarship Fund</td>
<td>Endowment</td>
<td>Continuing Environmental Sciences student. Award based solely on merit.</td>
<td>Annual</td>
<td>1</td>
</tr>
<tr>
<td>D. Jack Kilian Memorial Scholarship Fund</td>
<td>Endowment</td>
<td>SPH student pursuing a degree in Cytogenetics, Genetic Toxicology, or Occupational Medicine. Award based on academic merit and need.</td>
<td>Annual</td>
<td>1</td>
</tr>
</tbody>
</table>
## Writing Resources for SPH Students

**Basic Writing Skills: Grammar, Punctuation, Sentence Structure, ESL or ESOL**

<table>
<thead>
<tr>
<th>School</th>
<th>Classes Offered</th>
<th>Contact</th>
<th>Other Info</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Houston Division of Continuing Education and Extension: ESL Program</td>
<td>Grammar and Writing</td>
<td>Cherry Fowler, Coordinator</td>
<td>Registration is available at: <a href="http://www.uh.edu/continuingeducation/english_for_professional/classes.php">http://www.uh.edu/continuingeducation/english_for_professional/classes.php</a></td>
</tr>
<tr>
<td>Rice University School of Continuing Studies</td>
<td>Intensive English Program and Evening English Program</td>
<td>Language Programs</td>
<td>For more information go to: <a href="http://www.scs.rice.edu/scs">http://www.scs.rice.edu/scs</a> and click on English as a Second Language</td>
</tr>
<tr>
<td>University of Houston-Downtown, English Language Institute</td>
<td>Coursework in reading, writing, grammar, listening and speaking</td>
<td>713-221-8000, <a href="mailto:eli@uhd.edu">eli@uhd.edu</a></td>
<td>The English Language Institute is an intensive daytime program that emphasizes preparation for university academic studies. For more information go to: <a href="http://www.uhd.edu/prospective/continuinged/eli/main.htm">http://www.uhd.edu/prospective/continuinged/eli/main.htm</a></td>
</tr>
</tbody>
</table>
## Composition: Paragraph Structure, Basic Research Paper Structure, etc.

<table>
<thead>
<tr>
<th>School</th>
<th>Classes Offered</th>
<th>Contact</th>
<th>Other Info</th>
</tr>
</thead>
</table>
| San Jacinto College South English for Speakers of Other Languages | Intro, Intermediate, and Advanced Writing and Grammar, Intro/Advanced Developmental Composition for Non-Native Speakers | Joan Mauldin, Coordinator Language Skills Dept.  
713.922.3456  
Admissions 281.484.1900  
Ext. 3432 | 13735 Beamer Road, Houston, TX 77089  
(This school is located near Pearland, a twenty minute drive, so only students living in this area would probably be interested in this program.) |
| University of Houston-Downtown              | English Grammar and Composition courses as well as Environmental Writing and Science Writing | Enrollment Services  
713.222.8519 or  
Alana Galleaud, Admissions Coordinator, 713.221.8423  
http://www.dt.uh.edu | Students will be able to audit courses at UH-Downtown. To audit a course is to enroll in a course on a non-credit basis. Students auditing courses pay regular tuition and all other application fees. |
| University of Houston System                | English Grammar and Composition courses (varies by campus location)             | U of H system website:  
http://www.uhsa.uh.edu  
Links to area campuses provided here | 6 area campuses located throughout the Houston metro area |
| Houston Community College System             | English Grammar and Composition courses                                        | All admission and registration information located online at:  
http://www.hccs.edu/portal/site/hcc | 7 area campuses located throughout the Houston metro area |
<p>| Purdue University Online Writing Lab        | Research Skills and resources and the writing of research papers               | <a href="http://owl.english.purdue.edu/handouts/research">http://owl.english.purdue.edu/handouts/research</a> |  |
| American Medical Writers Association (AMWA)  | Writing workshops                                                               | <a href="http://www.amwasouthwest.org">www.amwasouthwest.org</a> |  |</p>
<table>
<thead>
<tr>
<th>School</th>
<th>Classes</th>
<th>Contact</th>
<th>Other Info</th>
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</thead>
<tbody>
<tr>
<td>University of Houston System Distance Education</td>
<td>Online courses: Professional, Advanced, and Business and Technical Writing</td>
<td><strong>UH Downtown</strong>: One Main Street Houston, Texas 77002 (713) 221-8522 Web site: <a href="http://www.dt.uh.edu">http://www.dt.uh.edu</a></td>
<td>Steps on registration, application, etc. at <a href="http://www.dt.uh.edu/admissions.htm">http://www.dt.uh.edu/admissions.htm</a> (Students will need to associated with a UH campus, I recommend U of H Downtown, since Student Affairs has a contact person with them.)</td>
</tr>
<tr>
<td>Houston Community College System Distance Education</td>
<td>Online courses ranging from English Composition to Technical Report Writing</td>
<td>Distance Education Office 713-718-5275 Choose option 4 Counselor, Distance Education Email: <a href="mailto:decounseling@hccs.edu">decounseling@hccs.edu</a></td>
<td>Steps on registration, application, etc. at <a href="http://distance.hccs.edu">http://distance.hccs.edu</a></td>
</tr>
<tr>
<td>ONLINE-LEARNING.com</td>
<td>Professional Technical Writing and Business</td>
<td><strong><a href="http://www.online-learning.com">www.online-learning.com</a></strong></td>
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<tr>
<td>American Medical Writers Association (AMWA), Southwest</td>
<td>Writing workshops</td>
<td><a href="http://www.amwasouthwest.org/">http://www.amwasouthwest.org/</a></td>
<td>Yearly conference, writing resources available online <a href="http://www.amwasouthwest.org/Events/index.htm">http://www.amwasouthwest.org/Events/index.htm</a></td>
</tr>
</tbody>
</table>

**Computer Software:**
Grammar Expert Plus helps by checking your writing for thousands of common grammatical errors. Syntax errors, wordy phrases, vague modifiers, capitalization, and possessive errors are among the types of corrections made by this program. A thesaurus is included, and the program also comes with a built-in mini word-processor. It counts words and sentences, and measure average word and sentence length. It includes a chart that can compare your writing with representative texts ranging from grade-school primers to PhD theses.

**Scientific Technical Writing:**
Writing Skills appropriate for a thesis or dissertation related to professional fields.
Degree Planner: FOR FALL 2011 – SUMMER 2012 ENTERING STUDENTS

**MPH: Environmental and Occupational Health Sciences Major**

Name: ___________________________ Student Number: ___________________ Division: EOHS/EHGES  Campus: Houston  Date: ________________

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
<th>Sem 1 (Term/yr)</th>
<th>Sem 2 (Term/yr)</th>
<th>Sem 3 (Term/yr)</th>
<th>Sem 4 (Term/yr)</th>
<th>Sem 5 (Term/yr)</th>
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<th>Sem 8 (Term/yr)</th>
<th>Sem 9 (Term/yr)</th>
<th>Sem 10 (Term/yr)</th>
<th>Sem 11 (Term/yr)</th>
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<th>Sem 13 (Term/yr)</th>
<th>Sem 14 (Term/yr)</th>
<th>Sem 15 (Term/yr)</th>
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<tbody>
<tr>
<td>PHMW 2100</td>
<td>4/fall</td>
<td>Foundations of Environmental and Occupational Health Sciences</td>
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<tr>
<td>PH 2610</td>
<td>3/all</td>
<td>Introduction to Epidemiology</td>
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<tr>
<td>PH 1690</td>
<td>4/all</td>
<td>Fundamentals of Biostatistics, Intermediate Biostatistics (1700 is strongly recommended, and required in some tracks)</td>
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<tr>
<td>PH 1700</td>
<td>4/all</td>
<td>Fundamentals of Biostatistics, Intermediate Biostatistics (1700 is strongly recommended, and required in some tracks)</td>
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<tr>
<td>PH 1110</td>
<td>3/all</td>
<td>Social &amp; Behavioral Aspects of Community Health</td>
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<tr>
<td>PH 3715</td>
<td>3/all</td>
<td>Introduction to Management and Policy Sciences</td>
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</table>

**PUBLIC HEALTH CORE COURSES (~18 credit hours)**

**OTHER REQUIRED COURSE (1 credit hour)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
<th>Sem 1 (Term/yr)</th>
<th>Sem 2 (Term/yr)</th>
<th>Sem 3 (Term/yr)</th>
<th>Sem 4 (Term/yr)</th>
<th>Sem 5 (Term/yr)</th>
<th>Sem 6 (Term/yr)</th>
<th>Sem 7 (Term/yr)</th>
<th>Sem 8 (Term/yr)</th>
<th>Sem 9 (Term/yr)</th>
<th>Sem 10 (Term/yr)</th>
<th>Sem 11 (Term/yr)</th>
<th>Sem 12 (Term/yr)</th>
<th>Sem 13 (Term/yr)</th>
<th>Sem 14 (Term/yr)</th>
<th>Sem 15 (Term/yr)</th>
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<tbody>
<tr>
<td>PHM 5010</td>
<td>1</td>
<td>Ethics in Public Health</td>
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**MAJOR COURSES (10 credit hours)**

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<th>Course</th>
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<th>Sem 3 (Term/yr)</th>
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<th>Sem 6 (Term/yr)</th>
<th>Sem 7 (Term/yr)</th>
<th>Sem 8 (Term/yr)</th>
<th>Sem 9 (Term/yr)</th>
<th>Sem 10 (Term/yr)</th>
<th>Sem 11 (Term/yr)</th>
<th>Sem 12 (Term/yr)</th>
<th>Sem 13 (Term/yr)</th>
<th>Sem 14 (Term/yr)</th>
<th>Sem 15 (Term/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHM 2101</td>
<td>2/spr</td>
<td>Contemporary Issues in Environmental and Occupational Health</td>
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<tr>
<td>PHM 2130</td>
<td>2/fall</td>
<td>Recognition of EOH Hazards</td>
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<tr>
<td>PH 2175</td>
<td>3/fall</td>
<td>Toxicology I: Principles of Toxicology</td>
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<tr>
<td>PH 2498</td>
<td>3/spr</td>
<td>Health and Safety Program Management</td>
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</table>

**EOHS ELECTIVES (At least 9 credit hours of EOHS electives)**

Some specific curricula have requirements which must be met with the elective credits, and some may require more than three courses.

- 3 EOHS Elective
- 3 EOHS Elective
- 3 EOHS Elective

**OTHER (e.g. CONCENTRATIONS)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Title</th>
<th>Sem 1 (Term/yr)</th>
<th>Sem 2 (Term/yr)</th>
<th>Sem 3 (Term/yr)</th>
<th>Sem 4 (Term/yr)</th>
<th>Sem 5 (Term/yr)</th>
<th>Sem 6 (Term/yr)</th>
<th>Sem 7 (Term/yr)</th>
<th>Sem 8 (Term/yr)</th>
<th>Sem 9 (Term/yr)</th>
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<th>Sem 11 (Term/yr)</th>
<th>Sem 12 (Term/yr)</th>
<th>Sem 13 (Term/yr)</th>
<th>Sem 14 (Term/yr)</th>
<th>Sem 15 (Term/yr)</th>
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</thead>
</table>

1

8/3/11
CULMINATING EXPERIENCE (3-6 credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PH 9996</td>
<td>3</td>
<td>Capstone Course Option, or</td>
</tr>
<tr>
<td>PH 9998</td>
<td>3</td>
<td>Written Paper Option</td>
</tr>
</tbody>
</table>

Practicum Topic and Site: PRACTICUM

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH 9997</td>
<td>3</td>
<td>Practicum</td>
</tr>
</tbody>
</table>

A MINIMUM of 45 credits are required for the MPH, and no more than six of the minimum of 45 may be in practicum and culminating experience combined. Some specified curricula require more than 45 credits to complete, for example industrial hygiene; see specific requirements.
**Degree Planner: FOR FALL 2011 – SUMMER 2012 ENTERING STUDENTS**

**DRPH: Environmental and Occupational Health Sciences Major**

Name: ___________________ Student Number: ________________ Division: EOHS/EHGES  Campus: ________________ Date: ________

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits /term</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHDW 2106</td>
<td>2/spr</td>
<td>Intro. Doctoral Research Methods in EOHS</td>
</tr>
<tr>
<td>PHD 2105</td>
<td>2/fall, spr</td>
<td>EOHS Doctoral Seminar (1 credit, take twice)</td>
</tr>
<tr>
<td>PHD 2135</td>
<td>3/fall</td>
<td>Risk Analysis – Principles and Practice, OR:</td>
</tr>
<tr>
<td>PHD 2190</td>
<td>3/spr</td>
<td>Env. &amp; Occup. Health Policy</td>
</tr>
<tr>
<td>PHD 2108</td>
<td>3/spr</td>
<td>Applied Epid. Analyses in EOHS, OR:</td>
</tr>
<tr>
<td>PHD 2760</td>
<td>3/sum</td>
<td>Occupational Epidemiology*</td>
</tr>
<tr>
<td>PHD 2101</td>
<td>2/spr</td>
<td>Contemporary Issues in EOHS (doctoral level)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other ‘D’ course as available</td>
</tr>
</tbody>
</table>

**MAJOR COURSES – required prior to the preliminary examination** (19 credit hours minimum)

**take one course from each of the following pairs of courses:**

- PHD 2135 / PHD 2190
- PHD 2108 / PHD 2760

**take at least 9 more credit hours of other EOHS doctoral courses:** (Additional options from the specified requirements, or new ‘D’ courses; one non-‘M’/non ‘D’ EOHS course may be included in the minimum of 9 credits)

- PHD 2101
- PHM 2100
- PHM 2130
- PH 2175
- PH 1700
- PHM 2610

**makeup if equivalent coursework not previously taken:** (‘M’ courses are NOT counted in the 48 credit minimum for the degree)

- PHM 2100
- PHM 2130
- PH 2175
- PH 1700
- PHM 2610

**Minor Discipline: Management / Leadership**

**MINOR (9 credit hours minimum) – NOT required prior to the preliminary examination**

- PH 3735
- PH 3998
- PH 5215
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>3743</td>
<td>3</td>
<td>Advanced Organizational Theory &amp; Management</td>
</tr>
<tr>
<td>PH 5200 PH 3744</td>
<td>3</td>
<td>Foundations of Leadership, OR: Organizational Behavior in Healthcare Organization</td>
</tr>
<tr>
<td>Breadth:</td>
<td></td>
<td>BREADTH (9 credit hours minimum) – NOT required prior to the preliminary examination</td>
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<td></td>
<td>ELECTIVES</td>
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<td>OTHER (e.g. CONCENTRATIONS)</td>
</tr>
<tr>
<td>Practicum Topic and Site:</td>
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<tr>
<td>PH 9997</td>
<td>3</td>
<td>Practicum</td>
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<td></td>
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<tr>
<td>PH 9998</td>
<td>5+</td>
<td>Dissertation Hours</td>
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<tr>
<td>Total Credits:</td>
<td></td>
<td>A MINIMUM of 48 credits must be taken, with no more than 3 credits for practicum and 6 credits of dissertation hours counted in the 48 credits minimum. 'M' courses do not count in the 48 credits minimum.</td>
</tr>
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</table>

*PHD 2108, PHD 2760, PHM 2610: All of these courses satisfy the general Epidemiology course requirement (all students must take at least one Epidemiology course)
# Degree Planner: FOR FALL 2011 – SUMMER 2012 ENTERING STUDENTS

**PhD: Environmental and Occupational Health Sciences Major**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits/term</th>
<th>Title</th>
<th>Sem 1 Term/yr</th>
<th>Sem 2 Term/yr</th>
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<th>Sem 14 Term/yr</th>
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</thead>
<tbody>
<tr>
<td>PHDW 2106</td>
<td>2/spr</td>
<td>Intro. Doctoral Research Methods in EOHS</td>
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<tr>
<td>PHD 2105</td>
<td>2/fall,</td>
<td>EOHS Doctoral Seminar (1 credit, take twice)</td>
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</table>

**MAJOR COURSES – required prior to the preliminary examination (19 credit hours minimum)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits/term</th>
<th>Title</th>
<th>Sem 1 Term/yr</th>
<th>Sem 2 Term/yr</th>
<th>Sem 3 Term/yr</th>
<th>Sem 4 Term/yr</th>
<th>Sem 5 Term/yr</th>
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<th>Sem 11 Term/yr</th>
<th>Sem 12 Term/yr</th>
<th>Sem 13 Term/yr</th>
<th>Sem 14 Term/yr</th>
<th>Sem 15 Term/yr</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHD 2135</td>
<td>3/fall</td>
<td>Risk Analysis – Principles and Practice, OR: Env. &amp; Occup. Health Policy</td>
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<tr>
<td>PHD 2190</td>
<td>3/spr</td>
<td>Applied Epid. Analyses in EOHS, OR: Occupational Epidemiology*</td>
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</table>

**take one course from each of the following pairs of courses:**

<table>
<thead>
<tr>
<th>Pair</th>
<th>Credits/term</th>
<th>Title</th>
<th>Sem 1 Term/yr</th>
<th>Sem 2 Term/yr</th>
<th>Sem 3 Term/yr</th>
<th>Sem 4 Term/yr</th>
<th>Sem 5 Term/yr</th>
<th>Sem 6 Term/yr</th>
<th>Sem 7 Term/yr</th>
<th>Sem 8 Term/yr</th>
<th>Sem 9 Term/yr</th>
<th>Sem 10 Term/yr</th>
<th>Sem 11 Term/yr</th>
<th>Sem 12 Term/yr</th>
<th>Sem 13 Term/yr</th>
<th>Sem 14 Term/yr</th>
<th>Sem 15 Term/yr</th>
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</thead>
<tbody>
<tr>
<td>PHD 2108</td>
<td>3/spr</td>
<td>Intermediate Biostatistics</td>
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**take at least 9 more credit hours of other EOHS doctoral courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Credits/term</th>
<th>Title</th>
<th>Sem 1 Term/yr</th>
<th>Sem 2 Term/yr</th>
<th>Sem 3 Term/yr</th>
<th>Sem 4 Term/yr</th>
<th>Sem 5 Term/yr</th>
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<th>Sem 7 Term/yr</th>
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<th>Sem 12 Term/yr</th>
<th>Sem 13 Term/yr</th>
<th>Sem 14 Term/yr</th>
<th>Sem 15 Term/yr</th>
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<tbody>
<tr>
<td>PHD 2101</td>
<td>2/spr</td>
<td>Contemporary Issues in EOHS (doctoral level)</td>
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**makeup if equivalent coursework not previously taken:**

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<tr>
<th>Course Code</th>
<th>Credits/term</th>
<th>Title</th>
<th>Sem 1 Term/yr</th>
<th>Sem 2 Term/yr</th>
<th>Sem 3 Term/yr</th>
<th>Sem 4 Term/yr</th>
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<th>Sem 13 Term/yr</th>
<th>Sem 14 Term/yr</th>
<th>Sem 15 Term/yr</th>
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</thead>
<tbody>
<tr>
<td>PHM 2100</td>
<td>3/fall</td>
<td>Fundamentals of EOHS</td>
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<tr>
<td>PHM 2130</td>
<td>2/fall</td>
<td>Recognition of EOHS Hazards</td>
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<tr>
<td>PH 2175</td>
<td>3/fall</td>
<td>Principals of Toxicology</td>
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<tr>
<td>PH 1700</td>
<td>4/all</td>
<td>Intermediate Biostatistics</td>
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<tr>
<td>PHM 2610</td>
<td>3/all</td>
<td>Fundamentals of Epidemiology*</td>
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**Minor Discipline:**

| Minor Discipline: | Sem 1 Term/yr | Sem 2 Term/yr | Sem 3 Term/yr | Sem 4 Term/yr | Sem 5 Term/yr | Sem 6 Term/yr | Sem 7 Term/yr | Sem 8 Term/yr | Sem 9 Term/yr | Sem 10 Term/yr | Sem 11 Term/yr | Sem 12 Term/yr | Sem 13 Term/yr | Sem 14 Term/yr | Sem 15 Term/yr |
|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|

**MINOR (9 credit hours minimum) – NOT required prior to the preliminary examination**
### Breadth:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>BREADTH (9 credit hours minimum) – NOT required prior to the preliminary examination</td>
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### Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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### Other (e.g. Concentrations)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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### Dissertation (6+ credit hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>PH 9998</td>
<td>6+</td>
<td>Dissertation Hours</td>
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</table>

### Total Credits:

A MINIMUM of 48 credits must be taken, with no more than 9 credits of dissertation hours counted in the 48 credits minimum. 'M' courses do not count in the 48 credits minimum.

*PHD 2108, PHD 2760, PHM 2610: All of these courses satisfy the general Epidemiology course requirement (all students must take at least one Epidemiology course)*