PHEH 500. Introduction to Environmental and Occupational Health Sciences  
**Prerequisite(s):** Enrollment in School of Public Health and Information Sciences.  
**Description:** This course provides students with the basic concepts and principles of environmental health and occupational health including environmental agents in water, air and soil, such as chemicals, biological and physical agents, and other important factors that may constitute a risk to humans. It also provides an overview of the basic principles and methods of risk assessment and risk management. This course is designed for all public health practitioners and meets the core environmental health requirement for the MPH degree program. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 525. Biological Basis for Parasitic and Infectious Diseases  
**Prerequisite(s):** PHEH 500 (or concurrently).  
**Description:** This course will provide an overview of key biological concepts related to the pathogenic responses of humans to infectious and parasitic agents. The central questions addressed by the course include: What strategies are used by different types of pathogens to interact with host cells and what physical/cellular barriers impact host infectious/parasite interactions; and how do host cells/organisms respond to different types of pathogens through innate and adaptive immune responses to infectious/parasitic diseases. For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)
PHEH 651. Advanced Environmental Health Services 3 Units
Prerequisite(s): PHEH 500 and enrollment in the School of Public Health and Information Sciences.
Description: This course is an in-depth examination of current topics in environmental health issues and practice and builds on principles presented in the prerequisite introductory course. Current topics within the broad category of environmental health will be explored with emphasis on environmental toxicology and nutrition. Specific topics include introduction to toxicological concepts, pulmonary toxicology, air pollution, susceptible populations, biosafety, public health nutrition including malnutrition and the environmental impact of agriculture. The course includes a traditional lecture format as well as in-class and online discussion groups for selected topics.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 750. Seminar 1 in Environmental Health 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): Enrollment in PhD in Public Health Sciences, Environmental Health Specialization Program in the School of Public Health and Information Sciences.
Description: In a series of seminar courses over four semesters, doctoral students engage as junior peers with faculty to: 1) critically review the current environmental health literature, 2) develop skills in preparing and making oral and poster presentations, 3) prepare at least one publication quality manuscript, and 4) develop an NIH-formatted R01 style research proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 751. Seminar 2 in Environmental Health 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): PHEH 750 and enrollment in PhD in Public Health Sciences, Environmental Health Specialization program in the School of Public Health and Information Sciences.
Description: In a series of seminar courses over four semesters, doctoral students engage as junior peers with faculty to: 1) critically review the current environmental health literature, 2) develop skills in preparing and making oral and poster presentations, 3) prepare at least one publication quality manuscript, and 4) develop an NIH-formatted R01 style research proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 752. Seminar 3 in Environmental Health 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): PHEH 750, PHEH 751, and enrollment in PhD in Public Health Sciences, Environmental Health Specialization program in the School of Public Health and Information Sciences.
Description: In a series of seminar courses over four semesters, doctoral students engage as junior peers with faculty to: 1) critically review the current environmental health literature, 2) develop skills in preparing and making oral and poster presentations, 3) prepare at least one publication quality manuscript, and 4) develop a NIH-formatted R01 style research proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 753. Independent Study in Environmental and Occupational Health 1-6 Units
Prerequisite(s): Enrollment in the PhD program in Public Health Sciences, Environmental Health Specialization in the School of Public Health and Information Sciences.
Description: This course provides students with the opportunity to develop a research project or investigation of an environmental or occupational health topic under the supervision of a faculty mentor. The student identifies an academic advisor and develops a proposal that includes a detailed syllabus with methods to evaluate the proposed work and criteria for assigning a grade. Both student and advisor sign documents describing their respective duties, and the proposed study is to be completed within 90 days after approval of the proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)

PHEH 754. Seminar 4 in Environmental Health 1 Unit
Grading Basis: Pass/Fail
Prerequisite(s): PHEH 750, PHEH 751, and PHEH 752 and enrollment in PhD in Public Health Sciences, Environmental Health Specialization program in the School of Public Health and Information Sciences.
Description: In a series of seminar courses over four semesters, doctoral students engage as junior peers with faculty to: 1) critically review the current environmental health literature, 2) develop skills in preparing and making oral and poster presentations, 3) prepare at least one publication quality manuscript, and 4) develop a NIH-formatted R01 style research proposal.
For class offerings for a specific term, refer to the Schedule of Classes (http://htmlaccess.louisville.edu/classSchedule/setupSearchClassSchedule.cfm)