PUBLIC HEALTH SCIENCES: SPECIALIZATION IN ENVIRONMENTAL HEALTH (PHD)

Doctor of Philosophy in Public Health Sciences specialization in Environmental Health
Unit: School of Public Health and Information Sciences (http://louisville.edu/sphis) (GH)
Department: Environmental and Occupational Health Sciences (http://louisville.edu/sphis/departments/environmental-occupational-health-sciences)
Program Website (https://sharepoint.louisville.edu/sites/sphis/do/aa/apc/pubs/PHS_PhD_in_Environ_Health_program.pdf)
Academic Plan Code(s): PHSCPHDENV

Program Information
The specialization in Environmental Health for the PhD in Public Health Sciences is designed to provide scholars with the tools to conduct in-depth research and provide advanced instruction in the discipline of environmental health at the college and university level. It also prepares researchers for governmental, private, and voluntary organizations involved in environmental protection and the prevention of disease and injury. In addition to understanding advanced concepts of environmental health, industrial hygiene, and toxicology, graduates of this specialization are expected to develop skills that enable them to identify and define questions of environmental and occupational health importance, design research studies to address these questions, and to complete a program of research that demonstrates abilities as an independent investigator.

Competencies
To graduate, a student in the Specialization in Environmental Health PhD program must demonstrate the following competencies*:

1. Critically evaluate published environmental health research, demonstrated by:
   • Presentation of articles in seminar course
   • Preparation of review article for seminar course
   • Development of NIH-style grant proposal for seminar course
   • Successful completion and defense of dissertation proposal
2. Develop oral and written skills for communicating results of environmental health research, demonstrated by:
   • Presentation of articles in seminar course
   • Preparation of review article for seminar course
   • Development of NIH-style grant proposal for seminar course
   • Successful completion and defense of dissertation proposal
3. Develop grant-writing skills, demonstrated by:
   • Development of NIH-style grant proposal for seminar course
   • Successful completion and defense of dissertation proposal
4. Perform research on a topic related to environmental health (typically includes most or all of the following: development of suitable hypothesis; selection of appropriate study design; development of proficiency in data collection methods; collection, analysis, and presentation of data; discussion of implications for public health based on knowledge gained), demonstrated by:
   • Conduct of dissertation research
   • Successful completion and defense of dissertation

Faculty Advisor
Upon admission to the PhD specialization, each student is assigned a faculty advisor who works with the student to develop a program of study. The program of study recognizes core elements of environmental health as well as its breadth and multidisciplinary nature. At the PhD level, this requires the selection of courses directly relevant to environmental health, such as biostatistics, epidemiology, molecular genetics, behavioral science, health policy/management, systems sciences, or other relevant areas of study.

Program of Study
Each doctoral student, in consultation with his or her academic advisor and the department chair, plans a program of study that uniquely fits the student’s career goals. The design of a doctoral program of study that reflects each student’s professional skills and research interest is the primary organizing principle of the proposed program.

The PhD specialization in environmental health is designed as a 39 credit hour program plus the dissertation. Additional hours may be needed for completion of the specialization program.

Admission Requirements
An applicant who has satisfactorily completed an appropriate degree with a concentration in environmental health or an advanced degree (MD, DVM, PhD and DO) may be eligible for admission to the PhD in Public Health Environmental Health Specialization pending evaluation of appropriate training, experience, or coursework. The previous graduate work by such an applicant is reviewed on a case-by-case basis, and the applicant, if admitted, may be required to take additional coursework prior to completing the minimum 39 credit hours required for post-master’s doctoral work.

Students are required to complete an admission application (http://louisville.edu/graduate/futurestudents/apply-materials/application) through the Graduate School, Graduate Admissions.

The following are additionally required for admission:

• Undergraduate and Graduate GPAs of at least 3.0 on 4.0 scale
• GRE scores from an exam taken within five years of expected matriculation. Although no minimum GRE scores are specified, students who have succeeded in this program have typically had GRE scores above the 50th percentile.
• If applicable, Test of English as a Foreign Language (TOEFL) minimum score of 80 for international applicants

Program Requirements
The PhD specialization in Environmental Health is designed as a 39-credit hour program plus dissertation. Additional hours may be needed for completion of the specialization program.

The emphasis in doctoral training goes beyond accumulating course credit. Completion of the coursework is the prelude to sitting for the qualifying examination. Successful passage of the qualifying examination allows the student to enter doctoral candidacy. A doctoral candidate must then successfully develop and defend a dissertation
A student may petition to take courses not on this list with the approval of the instructor and the chair of the department. The student must provide a written rationale for the choices of elective coursework in his or her program of study.
Qualifying Examination

Upon completion of the majority of the required coursework for the PhD (typically after the second year of coursework), the student is eligible to sit for the doctoral qualifying examination. The timing and eligibility for the qualifying examination is determined by the student’s faculty advisor and department chair. Students must take the exam within three months of the completion of all courses for the PhD program.

A student who does not successfully complete the exam may be required to take additional or remedial coursework. A student who fails the exam on the first attempt is allowed one opportunity to retake the exam no more than six months after the initial exam, at a date mutually agreed upon by the faculty and student. Failure on the second attempt is grounds for dismissal from the program.

Successful completion of the examination admits the student to doctoral candidacy (DOCT 600) until the completion of their dissertation.

Dissertation

A dissertation is required of a candidate for the degree of Doctor of Philosophy in Public Health Sciences, specialization in Environmental Health. It is to be a scholarly achievement in research and should demonstrate a thorough understanding of research techniques in environmental health and the ability to conduct independent research. The dissertation must follow the guidelines of the Graduate School (http://louisville.edu/graduate/current-students/thesis-dissertation-information).

Dissertation Committee

The dissertation shall be reviewed by a reading committee, chaired by the student’s faculty advisor, and appointed by the dean upon the advice of the chair of the department. If the faculty advisor has a primary appointment outside EOHS, the EOHS department chair will co-chair the committee. This committee shall consist of a minimum of four members, and must include at least two members with a primary appointment in EOHS and at least one representative with a primary appointment outside of EOHS. The dissertation must be approved by the committee and the chair of the department.

Dissertation Proposal

A student who successfully completes the qualifying exam must submit to all members of the dissertation committee a written dissertation proposal describing the proposed research in NIH grant proposal format. The student is then orally examined on the dissertation proposal.

Dissertation Preparation

The dissertation is to be prepared in format and binding according to the guidelines established by the Graduate School (http://louisville.edu/graduate/current-students/thesis-dissertation-information).

The dissertation is to be submitted in completed form to the chair of the department at least thirty days before the end of the term in which the candidate expects to be graduated. The candidate is not eligible for final examination until the dissertation has been accepted by the committee and chair. The dissertation committee schedules an oral defense by the candidate and notifies the Graduate School using the online form (http://louisville.edu/graduate/current-students/thesis-dissertation-information). The time and place for the defense is published by the Graduate School to the general academic community, members of which are free to attend the defense. The dissertation is assessed by a standardized rubric and is approved by a majority vote of the committee and the concurrence of the department chair.

Dissertation Submission

The following steps must be taken to submit the final copy of the dissertation electronically after oral defense and approval of the committee:

1. The final document must be converted to a PDF (following the guidelines as noted above) and sent to the Graduate School and the department’s administrative assistant.
2. The document is submitted as advised by the Graduate School through the ThinkIR repository. The directions on submission will be provided upon review of the dissertation by the Graduate School.
3. The signature page within the electronic version must have the names of your committee members typed under the signature line; the signatures cannot be scanned into the document.
4. The completed signature page is submitted on white paper, with original signatures, to the Graduate School.