

Human Toxicology, Ph.D.

Requirements

The Doctor of Philosophy program in human toxicology requires a minimum of 72 s.h. of graduate credit. The program is designed for students with backgrounds in the biological, engineering, and physical sciences. Entering students should have solid training in science, including courses in introductory chemistry and biology, and organic chemistry; knowledge of biochemistry and molecular biology also is useful. Students may remedy deficiencies by taking appropriate courses during their first year of graduate study.

Students begin the program with three two-month rotations in the laboratories of participating faculty members, in order to identify a mentor. After the first year, the mentor assumes financial responsibility for the student. With advice from the mentor, each student chooses an advisory committee, which meets at least once a semester to help the student explore the student's research interests. The committee also provides consultation on coursework and research activities and serves as the committee for the comprehensive examination and the final examination (dissertation defense).

The Human Toxicology Program is flexible. Students work with their advisory committees to plan a course of study tailored to their individual interests and goals within the field of toxicology.

Ph.D. students with a major in human toxicology must successfully complete the following coursework as part of their course of study.

Code	Title	Hours
This course:		
OEH:6710	Human Toxicology and Risk Assessment	3
Or these three courses:		
PHAR:6501	Principles and Mechanisms of Chemical Toxicology	1
PHAR:6502	Toxic Agents and Concepts in Toxicology	1
PHAR:6503	Target-Organ Toxicity	1
And all of these:		
TOX:7173	Professional Development in Toxicology	arr.
TOX:7180	Toxicology Research Seminar (enrollment is required each semester)	0-1
BMED:7270	Scholarly Integrity/Responsible Conduct of Research I (must be completed within first two years of graduate study)	0
OEH:6720	Advanced Toxicology	4

After successfully completing the comprehensive examination, usually at the end of the second year of graduate study, the student advances to Ph.D. candidacy. Students devote all of their time to dissertation research and writing. Upon successful completion of all requirements, including the

dissertation and its oral defense, students are awarded the Doctor of Philosophy degree.

Combined Programs

Ph.D./M.D.

Students may work toward the Doctor of Medicine degree and a Ph.D. in human toxicology in a combined degree program offered by the Graduate College and the Carver College of Medicine. Applicants must be admitted to both programs before they may be admitted to the combined degree program. See the Medical Scientist Training Program (Carver College of Medicine) in the Catalog.

Admission

Prospective students may apply to the program via a centralized application system; see Admission Information on the Human Toxicology Program website.

Completed applications are encouraged to be submitted by December 1, but applications after that date are given full consideration. Applications submitted after March 1 are reviewed when received and are considered for any remaining openings.

Applicants must meet the admission requirements of the Graduate College; see the Manual of Rules and Regulations of the Graduate College on the Graduate College website.

Financial Support

Doctoral students in human toxicology receive stipends and tuition support from University of Iowa sources, including internal fellowships and graduate research assistantships, and from non-University sources, such as training grants from the National Institutes of Health (NIH).