Human Toxicology, M.S.

Learning Outcomes

Students will be able to:

- demonstrate an in-depth knowledge of the principles of toxicology, including metabolism, toxicity, risk assessment, and specific expertise related to the area of their thesis (molecular biology, in vitro and/or in vivo techniques, analytical methods);
- apply the knowledge and skills of toxicology to conduct independent and innovative research;
- demonstrate high ethical and professional standards and responsible conduct in research; and
- synthesize the knowledge and skills of toxicology to succeed as a professional in diverse toxicology careers.

Requirements

The Master of Science program in human toxicology requires a minimum of 39 s.h. of graduate credit and a thesis. Students must maintain a cumulative g.p.a. of at least 3.00.

The program is designed for students who wish to pursue a master's degree as a second degree or through part-time study, particularly those who perform toxicologists' functions in their jobs and who need additional training.

Entering students should have backgrounds in the biological, engineering, and physical sciences and should have completed courses in introductory chemistry and biology, and organic chemistry.

After entering the program, students work with their mentor to choose an advisory committee, which meets at least once a semester to help them explore their research interests. The committee also provides consultation on coursework and research activities and serves as the committee for the final examination (thesis 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.

Required Courses

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

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<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>OEH:6710</td>
<td>Human Toxicology and Risk Assessment</td>
<td>3</td>
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<tr>
<td>PHAR:6501</td>
<td>Principles and Mechanisms of Chemical Toxicology</td>
<td>3</td>
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And all of these:

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td>TOX:7173</td>
<td>Professional Development in Toxicology</td>
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<tr>
<td>TOX:7180</td>
<td>Toxicology Research Seminar (enrollment is required each semester)</td>
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Upon successful completion of all requirements, including the thesis and its oral defense, students are awarded the Master of Science degree.

Admission

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

Completed applications should be submitted by January 1; applications submitted after that date are reviewed as they are 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 on the Graduate College website.