Environmental Toxicology (MS)

Degree Requirements

Program Completion Requirements

In addition to six (6) credit hours of EXT 599, a minimum of eight (8) credit hours of elective graduate coursework within your track beyond the credit hours of core coursework are required for the M.S. degree in Environmental Toxicology’s Research Thesis track.

<table>
<thead>
<tr>
<th>Course Work</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Core courses, including:</td>
<td>21</td>
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<tr>
<td>BLY 515 Ecotoxicology</td>
<td>3, 1 hrs</td>
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<tr>
<td>CE 579 Fundamentals Environmental Engineering</td>
<td>3 hrs</td>
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<tr>
<td>CH 514 Environmental Chemistry</td>
<td>3, 1 hrs</td>
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<tr>
<td>EXT 515 Environmental Toxicology</td>
<td>3 hrs</td>
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<tr>
<td>GIS 501 Research Integrity</td>
<td>1 hr</td>
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<tr>
<td>ST 550 Environmental Statistics</td>
<td>3 hrs</td>
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<tr>
<td>SY 567 Environmental Sociology</td>
<td>3 hrs</td>
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"Research Thesis" track: 14

A Research Thesis on a subject identified jointly by the student and the Advisory Committee. 6 hrs

Courses in specific areas of concentration 8 hrs

"Library Research Project" track 14

A Library Research Project on a subject identified jointly by the student and the Advisory Committee. 3 hrs

Courses in specific areas of concentration 11 hrs

The "Research Thesis" must be completed either at the University of South Alabama or, upon approval by the Advisory Committee, at a government or industrial laboratory in the area.

Students will choose one of the following areas of concentration:

• Biology (TXBY)
• Basic Medical Sciences (TXMS)
• Chemistry (TXCH)
• Environmental Engineering (TXEE)
• Exposure Route/Chemical Transport (TXEC)
The student, his/her advisory committee, and if necessary, members of the Advisory Board will be responsible for designing the
curriculum that best fits the student's professional goals. If, in the opinion of the student's committee, the student lacks adequate
undergraduate preparation, the student will be required to make up such deficiencies.

Department Information

Environmental Toxicology web site
http://www.southalabama.edu/graduatemajors/etox/

The University of South Alabama offers an interdisciplinary curriculum to teach graduate students the biochemical and
physiological processes resulting from the interactions between toxic compounds and the biosphere.
Students in this program will learn to:

• evaluate the impact of specific pollutants in the environment
• perform laboratory and field-tests to monitor environmental pollutants
• control and manage toxic substances
• identify water and air pollutants
• review current and new legislation and protocols in this area

Graduates from this program will be able to work in industrial settings in the areas of Industrial Hygiene, Environmental Health,
Environmental Engineering and Toxicology or to continue their education by pursuing a Ph.D. degree in Toxicology or related
areas. In addition, these graduates will be qualified for jobs requiring M.S. degrees in their original areas of concentration. For
example, a chemist or a chemical engineer will be better qualified to work in a chemical or pharmaceutical company if, in addition
to his/her background in chemistry or engineering, the applicant has training in toxicology to address the environmental impact
of specific projects.

Admission

Students applying to this program must fulfill all the requirements for admission specified by the Graduate School. Additional
requirements include:

• B.S./B.A. degree from an accredited four-year institution: the program is designed for graduates holding degrees in
  Biology, Biomedical Sciences, Chemistry, Engineering or related fields.
• An undergraduate GPA of 3.00 or above is preferred. Under exceptional circumstances, students with an undergraduate
  GPA below 3.00 will be considered.
• The GRE will be required and will be considered among the admission criteria.
• In addition, students applying to this program must have completed the following undergraduate courses:
  • Biology (1 semester)
  • Statistics (1 semester)
  • Calculus (1 semester)
  • Organic Chemistry (2 semesters)
• It is recommended (but not required) that students applying to the program also complete 6 credit hours of undergraduate
  Biochemistry and have satisfied any other prerequisites needed for specific courses within each concentration. Those
  students who did not take undergraduate Biochemistry will have to include 6 hours of graduate Biochemistry among
  the required courses to complete the program. This will not change the total number of hours required to complete the
  program.

Deadline For Application For Environmental Toxicology

Applications are accepted in the Fall, Spring, and Summer semesters by the deadlines indicated in the University of South
Alabama Bulletin.