

## Emphasis - Environmental Toxicology

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### Ph.D. in Pharmaceutical Sciences Description

The Ph.D. in pharmaceutical sciences can be completed with an emphasis in environmental toxicology, medicinal chemistry, pharmaceuticals, pharmacology, pharmacognosy, or pharmacy administration.

**Minimum Total Credit Hours: 57**

#### Course Requirements

Requirements for each emphasis area are given in the respective program description sections.

### Emphasis - Environmental Toxicology Description

The Ph.D. in pharmaceutical sciences with emphasis in environmental toxicology prepares a graduate to perform independent research and solve problems related to environmental health issues. Graduates are likely to find careers in academics, industry, or government service.

#### Course Requirements

The core requirements for the Ph.D. with an emphasis in environmental toxicology are:

- Phcl 547 Introduction to Environmental Toxicology (2 hours)
- Phcl 675 Principles of Pharmacology and Toxicology I (4 hours)
- Phcl 676 Principles of Pharmacology and Toxicology II (4 hours)
- Bisc 504 Biometry (3 hours)

Additional course work may include Medc 610; Phcg 620 (marine toxins, chemical ecology, and biochemical adaptations); Phcg 627-628; Phcl 581, 661, 669; Bisc 553, 632; Chem 512, 580; and Geol 532. These elective courses are determined in consultation with the student's advisory committee.

#### Other Academic Requirements

Doctoral students are also required to present a minimum of four seminars; one of these presentations can be over the student's dissertation research. Doctoral students must complete a comprehensive examination (both written and oral components), administered by the student's advisory committee and the program's Admission, Retention, and Review Committee. Students must prepare a dissertation prospectus and prepare and orally defend a dissertation based on original, independent research.

#### Degree Requirements

The academic regulations for this degree program, as entered in the University of Mississippi Catalog, are in effect for the current or selected academic year and semester. The University of Mississippi reserves the right to 1) change or withdraw courses; 2) change rules for registration, instruction, and graduation; and 3) change other regulations affecting the student body at any time.

### Ph.D. in Pharmaceutical Sciences

| REQUIREMENT              | HOURS | DESCRIPTION  |
|--------------------------|-------|--|
| Select an emphasis       |       | Student must enroll in one of the Ph. D. in Pharmaceutical Sciences emphasis areas: medicinal chemistry, pharmaceuticals, pharmacognosy, environmental toxicology, pharmacy administration or pharmacology/toxicology.   |
| GPA requirements         |       | A cumulative average of not less than 3.0 (B) must be achieved in all graduate work taken.   |
| Pharmacy Dean's approval |       | This Degree Audit program is an advising tool only. The dean's office will make the final certification that the student qualifies for graduation. The dean's office will also determine if other university or school requirements (GPA, etc.) have been met. |

### Emphasis - Environmental Toxicology

| REQUIREMENT                      | HOURS | DESCRIPTION  |
|----------------------------------|-------|--|
| <a href="#">Bisc 504</a> - C min | 4     | Complete <a href="#">Bisc 504</a> with a grade of C or better.   |
| <a href="#">Phcl 547</a> - C min | 2     | Complete <a href="#">Phcl 547</a> with a grade of C or better.   |
| <a href="#">Phcl 643</a> - C min | 4     | Student must present a minimum of four seminars ( <a href="#">Phcl 643</a> ); one of these presentations can be the student's dissertation research. |
| <a href="#">Phcl 675</a> - C min | 4     | Complete <a href="#">Phcl 675</a> with a grade of C or better.   |
| <a href="#">Phcl 676</a> - C min | 4     | Complete <a href="#">Phcl 676</a> with a grade of C or better.   |
| <a href="#">Phcl 797</a>         | 18    | Complete at least 18 hours of dissertation credits.  |
| Comprehensive exam               |       | Student must pass a comprehensive examination.   |



| REQUIREMENT             | HOURS | DESCRIPTION  |
|-------------------------|-------|--|
| Dissertation prospectus |       | Student must submit and defend a dissertation prospectus.  |
| Oral defense            |       | Every candidate for the Ph.D. degree must successfully pass a final oral examination (defense of dissertation) administered by the student's dissertation committee and scheduled by the Graduate School.  |
| Submit Dissertation     |       | Student must submit a dissertation to his/her GPC/Chair. The dissertation must conform to the regulations governing style set forth in "A Manual of Thesis and Dissertations Preparations", available in the Graduate School Office. Two copies of the dissertation must be presented to the Graduate School after the final examination for the doctorate has been accepted and before the beginning of the regular examination period for the semester in which the candidate plans to graduate. |

