

## **Emphasis - Environmental Toxicology**

- [Ph.D. in Pharmaceutical Sciences](#)
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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.

