# PHARMACEUTICAL SCIENCES (MS) - PHARMACOLOGY EMPHASIS

## Description

The M.S. in pharmaceutical sciences can be completed with an emphasis in environmental toxicology, industrial pharmacy, medicinal chemistry, pharmaceutics, pharmacology, pharmacognosy, or pharmacy administration.

**Minimum Total Credit Hours: 30**

## Course Requirements

Requirements for each emphasis area are given in the respective program description sections. Each emphasis area requires students to complete a minimum of 24 semester hours of course work and 6 hours of thesis.

### Emphasis - Pharmacology

#### Description

The M.S. in pharmaceutical sciences with emphasis in pharmacology involves the study of the interaction of drugs, chemicals, and physical agents with biological systems and their constituent parts. Graduates are likely to find careers positions within academic, industry or government service. Additionally, the MS degree program prepares individuals who wish to enhance their academic credentials by acquiring a higher degree before pursuing further studies in medical, dental, pharmacy or PhD programs.

Note: For more information, refer to the student handbook

Graduate Student Handbook (http://pharmacy.olemiss.edu/biomolecularsciences/gradprogram/bms-graduate-student-handbook/)

#### Goals/Mission Statement

The academic mission of the Department of BioMolecular Sciences, Pharmacology Division is to apply pharmacological sciences to the teaching of professional pharmacy students and graduate students and to conduct research and educational activities that seek to identify and resolve problems related to basic and applied pharmacology.

#### Course Requirements

Requirements for the M.S. in pharmaceutical sciences with an emphasis in pharmacology consist of:

| Code | Title | Hours |
|---|---|---|
| BMSC 6010 | Graduate Student Survival Strategies | 2 |
| PHCL 6751 | Gen Princ of Pharmacology & Toxicology I | 4 |
| PHCL 6752 | Gen Princ - Pharmacology & Toxicology II | 4 |
| PHCL/BMSC/Bisc/Chem/Engr or other courses at 5000/6000/7000-level (5000-level courses require adviser approval) electives | | 9 |
| GRAD 6000 | Research Ethics | 1 |

#### Seminar Requirement

Students are required to register for BMSC 6430 BioMolecular Sciences Seminar (Z grade) every semester, with the exception of those semesters in which the student presents a seminar and instead registers for BMSC 6410 BioMolecular Sciences Seminar (graded). No more than 4 seminar hours can be used toward the 24 minimum total credit hours.

A minimum of 6 hours of thesis research must also be taken to meet degree requirements.

#### Other Academic Requirements

A thesis based upon experimental work in the general area of pharmacology is required.

#### Degree Requirements and Expectations

Pharmacology graduate students must meet a high level of academic achievement to maintain eligibility. Students are expected to maintain an overall GPA of at least 3.0 (B).