PHARMACEUTICAL SCIENCES (MS) - MEDICINAL CHEMISTRY 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 - Medicinal Chemistry

Description

An M.S. in pharmaceutical sciences with emphasis in medicinal chemistry is a multidisciplinary chemistry-centered science involved in applying both chemical and biological principles to a study of drugs capable of exerting specific effects on a biological system. In practice, the medicinal chemist is involved in designing, synthesizing and characterizing medicinal agents intended for the management and/or therapy of diseases.

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 mission of the Department of BioMolecular Sciences, Division of Medicinal Chemistry is to apply chemistry and the chemically related sciences to the teaching of professional pharmacy students and graduate students. The research mission of the department is the discovery, design, analysis, and further development of potential drugs and the discovery of potential drug design targets.

Course Requirements

Requirements for the M.S. with an emphasis in medicinal chemistry consist of:

Code	Title	Hours
BMSC 6010	Graduate Student Survival Strategies	2
MEDC 5011	Advanced Medicinal Chemistry I	3
MEDC 5070	Organic Chemistry of Drug Synthesis	3
MEDC/PHCG/BMSC courses 6000/7000 level		6
Elective Courses 5000/6000/7000 level		6

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 medicinal chemistry is required.

Degree Requirements and Expectations

Medicinal Chemistry 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).