Emphasis - Medicinal Chemistry

- Ph.D. in Pharmaceutical Sciences
- Emphasis - Medicinal Chemistry

Ph.D. in Pharmaceutical Sciences

Description

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

Minimum Total Credit Hours: 54

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 36 semester hours of course work and 18 hours of dissertation

Emphasis - Medicinal Chemistry

Description

A Ph.D. in pharmaceutical sciences with emphasis in medicinal chemistry prepares a graduate to perform basic and applied interdisciplinary research in drug discovery and development using the tools of computational chemistry, synthetic chemistry, and biological evaluation. Current faculty research programs are focused in cancer, infectious disease, cardiometabolic disorders and neuroscience/drugs of abuse.

Note: For more information, refer to the student handbook

http://pharmacy.olemiss.edu/biomolecularsciences/gradprogram/bms-grad uate-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

The course requirements for the Ph.D. with emphasis in medicinal chemistry consist of:

- Graduate Student Survival Strategies (BMS 601) (2 hours);
- Advanced Medicinal Chemistry I (Medc 501) (3 hours);
- Organic Chemistry of Drug Synthesis (Medc 507) (3 hours);
- Problems in Medicinal Chemistry (Medc 541/542) (1 hour);
- Medc/Phcg/BMS courses 600/700 level (12 hours);
- Elective courses 500/600/700 level (6 hours);
- Original Research Proposal (BMS 605) (1 hour).

Seminar Requirement

Students are required to register for BMS 643 (Z-grade) every semester, with the exception of those semesters in which the student presents a seminar and instead registers for BMS 641 (graded). No more than 8 seminar hours can be used toward the 54 minimum total credit hours.

A minimum of 18 hours of dissertation research must also be taken to meet degree requirements.

Other Academic Requirements

Original Research Proposal

A student must prepare, submit, and successfully (orally) defend an original research proposal (ORP). Procedures for this requirement will be provided by the department. Students will register for BMS 605 (Original Research Proposal BioMolecular Sciences) in the semester they anticipate defending their ORP.

MALTO Presentation

All graduate students in the Ph.D. program will be required to present their original research in the form of a podium presentation at one of the annual MALTO Medicinal Chemistry Meetings-in- Miniature.

Dissertation

A student must prepare and orally defend a dissertation based on original, independent research in partial fulfillment of their Ph.D. degree.

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.