Emphasis - Medicinal Chemistry

M.S. in Pharmaceutical Sciences

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

Minimum Total Credit Hours: 31

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 prepares a graduate to do research toward understanding the mechanism of action of drugs. In such research, a medicinal chemist strives to establish correlations between biological properties and physiochemical parameters of drugs.

Course Requirements
Students enrolled in the Master of Science degree in Pharmaceutical Sciences with an emphasis in Medicinal Chemistry will be required to complete a minimum of 24 semester hours of course work and 6 hours of thesis. Students will be required to enroll in the following courses as a minimum; additional courses may be taken:

• Graduate Student Survival Strategies (BMS 601) (2 hours)
• Biomolecular Sciences Seminar (BMS 641, repeated for credit, graded) —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 4 seminar hours can be used toward the 30 minimum total credit hours.
• Advanced Medicinal Chemistry I (MEDC 501) and Organic Chemistry of Drug Synthesis (MEDC 507) (6 hours);
• MEDC courses 600/700 level or BMS courses 700 level (6 hours)
• Elective Courses (6 hours)

Other Academic Requirements
A thesis is required.