

[Emphasis - Medicinal Chemistry](#)

- [M.S. in Pharmaceutical Sciences](#)
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M.S. in Pharmaceutical Sciences Description

The M.S. in pharmaceutical sciences can be completed with an emphasis in environmental toxicology, medicinal chemistry, pharmaceuticals, 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

Requirements for the M.S. with an emphasis in medicinal chemistry are to complete at least 30 hours, to include the following: 1. Students entering the program with no background in medicinal chemistry will take Advanced Medicinal Chemistry I, II (Medc 501, 502) (6 hours); 2. Medicinal Chemistry Research Methodology (Medc 503) (3 hours); 3. Seminar on Current Medicinal Chemistry Topics (1 hour). Two departmental seminars are required of master's degree candidates. Students are required to attend seminars each semester irrespective of whether they present a seminar that semester or whether they are enrolled in seminar. Students are encouraged to take at least one drug action and design course.

Other Academic Requirements

A thesis is required.

