

## [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 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.

