

## Emphasis - Medicinal Chemistry

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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.

#### Degree Requirements

The academic regulations for this degree program, as entered in the University of Mississippi Catalog, are in effect for the current or selected academic year and semester. The University of Mississippi reserves the right to 1) change or withdraw courses; 2) change rules for registration, instruction, and graduation; and 3) change other regulations affecting the student body at any time.

### M.S. in Pharmaceutical Sciences

| REQUIREMENT              | HOURS | DESCRIPTION  |
|--------------------------|-------|--|
| Select an emphasis       |       | Student must enroll in one of the M.S. in Pharmaceutical Sciences emphasis areas: medicinal chemistry, pharmaceuticals, pharmacognosy, environmental toxicology, pharmacy administration or pharmacology/toxicology.   |
| GPA requirements         |       | A cumulative average of not less than 3.0 (B) must be achieved in all graduate work taken.   |
| Pharmacy Dean's approval |       | This Degree Audit program is an advising tool only. The dean's office will make the final certification that the student qualifies for graduation. The dean's office will also determine if other university or school requirements (GPA, etc.) have been met. |

## Emphasis - Medicinal Chemistry

| REQUIREMENT                      | HOURS | DESCRIPTION  |
|----------------------------------|-------|--|
| <a href="#">Medc 501</a> - C min | 3     | Complete <a href="#">Medc 501</a> with a grade of C or better.   |
| <a href="#">Medc 502</a> - C min | 3     | Complete <a href="#">Medc 502</a> with a grade of C or better.   |
| <a href="#">Medc 503</a> - C min | 3     | Complete <a href="#">Medc 503</a> with a grade of C or better.   |
| <a href="#">Medc 543</a> - C min | 1     | Complete <a href="#">Medc 543</a> with a grade of C or better.   |
| <a href="#">Medc 544</a> - C min | 1     | Complete <a href="#">Medc 544</a> with a grade of C or better.   |
| <a href="#">Medc 697</a>         | 6     | Complete at least 6 hours of thesis ( <a href="#">Medc 697</a> ).  |
| Submit Thesis                    |       | Student must submit a thesis to his/her GPC/Chair. Regulations governing the style, format, paper, abstract and other matters may be found in "A Manual of Thesis and Dissertations" available in the Graduate School Office. After the oral examination has been accepted, the student must present to the Graduate School two unbound copies of the thesis. A copy of the abstract and the thesis binding fee receipt must accompany the copies of the thesis. |
| Thesis defense                   |       | Student must orally defend his/her thesis.   |

