PHARMACOLOGY M.S.

All students must meet the Requirements for the Master’s Degree

OVERVIEW

The Department of Pharmacology offers thesis-based and non-thesis Master of Science degrees. The thesis-based M.S. degree is a course and research based program, with 24 credits in course work, and 6 credits of research. A thesis is written and there is a defense. A non-thesis M.S. degree requires 30 credits in coursework, but does not require a thesis or thesis defense. Research interests in the Department of Pharmacology are diverse, with special emphasis on cardiovascular and cerebrovascular pharmacology, physiology, neurovascular coupling, signal transduction, and medicinal chemistry/cancer chemotherapy.

SPECIFIC REQUIREMENTS

Requirements for Admission to Graduate Studies for the Degree of Master of Science

Students should apply for admission into the master’s in Pharmacology program by December 1st of the year prior to their anticipated start in the program. Admission to the program requires the following:

- A minimum cumulative grade point average of 3.00
- Completion of one year of undergraduate biology, organic chemistry and physics courses.
- Acceptable scores on the general (verbal and quantitative) sections of the GRE
- Completion of the Graduate College Application form that must include at least three letters of recommendation. Students MUST be admitted through the Graduate College before taking any courses that will be applied to the master’s degree requirements.

Minimum Requirements

A minimum of 30 credits and successful completion of a written comprehensive exam are required for completion of a Master’s Degree in Pharmacology. Students enrolled in the thesis-based program must also write, present and successfully defend their research thesis.

All students must meet the UVM Graduate College Requirements for the Master’s Degree. Courses should be selected from the following lists. Up to two additional graduate level courses (6 credits), approved by the program director may be used towards the 30 credit requirement.

<table>
<thead>
<tr>
<th>Required Courses:</th>
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<tbody>
<tr>
<td>PHRM 240  Molecules &amp; Medicine  3</td>
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<tr>
<td>PHRM 290  Topics Molecular&amp;Cell Pharm  3</td>
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<tr>
<td>PHRM 302  Pharmacological Techniques  1-4</td>
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<td>PHRM 381  Seminar  1</td>
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Comprehensive Examination

Students are required to pass a written comprehensive exam. The written examination will consist of questions based on topics relevant to the student’s course of study. The program director will solicit questions from departmental faculty and compile the exam. A single re-take is permitted for the comprehensive exam. The comprehensive exam should be completed by the end of the third semester of the two-year M.S. program.

Requirements for Advancement to Candidacy for the Degree of Master of Science

Advancement to candidacy requires satisfactory completion of the comprehensive exam.