PHARMACOLOGY M.S.
All students must meet the Requirements for the Master’s Degree

OVERVIEW
The objective of the Department of Pharmacology Master’s Programs is to provide a broad knowledge base of pharmacological concepts, preparing students for careers in pharmaceutical, biotechnology and related industries; or to increase their competitiveness to pursue additional graduate degrees. 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.

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.

SPECIFIC REQUIREMENTS
Requirements for Admission to Graduate Studies for the Degree of Master of Science
A course background in the sciences (biology, chemistry, physics, etc.) is recommended. Graduate Record Examination (GRE) scores are not required.

Admission to the program requires the following:
- A minimum cumulative grade point average of 3.00 is recommended.
- 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 DEGREE 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.

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>
</tr>
</thead>
<tbody>
<tr>
<td>PHRM 240</td>
</tr>
</tbody>
</table>

Comprehensive Examination
Students are required to pass a written comprehensive exam that will be taken in March of the second year. The format is a take-home written exam. The questions will be based on the core-curriculum Pharmacology focused courses common to the thesis and non-thesis based tracks. Grading is on a 1-10 scale for each question. An average score of 7 or better is required to pass. If a passing grade is not obtained, one re-take is permitted.

Requirements for Advancement to Candidacy for the Degree of Master of Science
Advancement to candidacy requires satisfactory completion of the comprehensive exam.