

M.S., PHARMACOLOGY AND NEUROSCIENCE

Master of Science, Pharmacology and Neuroscience: (Minimum of 30 Credits)

The M.S. program in Pharmacology & Neuroscience is an excellent method for students to receive additional preparation for pursuit of a M.D. or Ph.D. degree. The M.S. program emphasizes a combination of course work, laboratory experience and training in the scientific method.

For those students intending the M.S. as a terminal degree, the Objectives of the program include preparation of the student for the following career paths:

1. Teaching of Pharmacology and/or Neuroscience at the undergraduate level.
2. Participation in team research in universities, industry or government.

The student will select a major adviser and assemble a thesis committee. The student, adviser and committee will formulate a plan of study. The adviser and committee will assist the student during the entire course of the program.

Code	Title	Credits
Required Didactic Courses		
IDC 601	Responsible Conduct of Research	1
IDC 625	Introduction to Biostatistics for the Biomedical Sciences	3
PHR 536	Drugs and Drug Targets	2
PHR 537	Fundamentals of Neuroscience	3
PHR 715	Foundational Science	4
Required Seminar and Topical Courses		
PHR 531	Topics in Pharmacology and Drug Discovery Journal Club	2
PHR 532	Hot Topics in Neuroscience Journal Club	2
PHR 750	Research Discussions In Pharmacology & Neuroscience	4
PHR 760	Research Rounds In Pharmacology & Neuroscience	4
PHR 791	Pharmacology & Neuroscience Seminar	3
Required Research Courses		
PHR 795	Directed Independent Study	6
PHR 797	Master's Directed Independent Research	16-20
PHR 799	Master's Thesis	3-6
Electives		
IDC 627	Research Methods	
IDC 701	Research Writing	
PHR 461	Integrative and Alternative Medicine	
PHR 631	Medical Pharmacology I	
PHR 632	Medical Pharmacology II	
PHR 650	Introduction to Neuropharmacology	
PHR 667	Developmental Biology	
PHR 711	Receptor and Molecular Pharmacology	

PHR 720	Fundamentals of Brain Imaging, Recording, and Stimulation
PHR 790	Research Laboratory Rotations (up to 3 credits)
PHR 794	Special Topics in Pharmacology & Neuroscience

The student must maintain at least a B (3.0) average throughout the MS program, with no more than six credits with a grade below B-.

Thesis: Master of Science students must present and defend a thesis. The defense is open to the public, but only the student's thesis committee may directly participate in the examination. Copies of the thesis must be presented to the committee at least 30 days prior to the defense.