Pharmacology (MS)

The Department of Pharmacology offers programs leading to the Master of Science and Doctor of Philosophy degrees. Our primary objective is to prepare candidates for research and teaching careers. The first few semesters are devoted primarily to core course work designed to give the student a broad background in the fundamental theories and techniques of pharmacology. During this time, the student gains exposure to methods for the solution of research problems by working in the laboratories of various faculty members culminating in a selection of a thesis advisor. Candidacy for the Ph.D. requires, in part, demonstrated proficiency in expository writing, the satisfactory completion of course work and preliminary written and oral examinations. Emphasis is placed on giving candidates rigorous standards of scholarship and critical attitudes toward the solution of research problems. A broad range of research interests exists within the department. An active seminar program conducted by visiting scientists gives students and faculty opportunities to broaden their outlook on current scientific problems.

Program: Pharmacology Type: MS

First Year Fall

ltem #	Title	Credits
BIOC-101	General Biochemistry	4
PHAR-219	Graduate Biomedical Informatics	2
PHAR-204	Literature Seminar	1
PHAR-205	Research Seminar	1
PHAR-200	Introduction to General Principles of Pharmacology	3
	Sub-Total Credits	11

First Year Spring

• PHAR-400 *Note: This course can be taken for a maximum of 10 credits with the student taking 2 credits per semester.

ltem #	Title	Credits
PHSI-171	Basic Medical Physiology	7
PHAR-400	Research (M.S. Thesis or Ph.D. Dissertation)	1-2
PHAR-201	Introduction to Pharmacological Research Methods	3
	Sub-Total Credits	11

First Year Summer

• PHAR-400 *Note: This course can be taken for a maximum of 10 credits with the student taking 2 credits per semester.

ltem #	Title	Credits
PHAR-400	Research (M.S. Thesis or Ph.D. Dissertation)	1-2
	Sub-Total Credits	2

Second Year Fall

• PHAR-400 *Note: This course can be taken for a maximum of 10 credits with the student taking 2 credits per semester.

ltem #	Title	Credits
PHAR-216	General and Systematic Pharmacology I	4
PSYC-277	Applied Multivariate Statistics	3
PHAR-400	Research (M.S. Thesis or Ph.D. Dissertation)	1-2
PHAR-208	Advanced Problems in Pharmacology	4
PHAR-220	Alcohol Studies	2
PHAR-212	Cellular and Biochemical Pharmacology	2
	Sub-Total Credits	17

Second Year Spring

• PHAR-400 *Note: This course can be taken for a maximum of 10 credits with the student taking 2 credits per semester.

ltem #	Title	Credits
PHAR-217	General and Systematic Pharmacology II	4
PHAR-400	Research (M.S. Thesis or Ph.D. Dissertation)	1-2
PHAR-252	Cellular and Molecular Physiology	3
PHAR-209	Drug Development in Clinical Pharmacology	2
PHAR-202	Experimental Design and Statistical Methods	4
PHAR-203	Intro to theory and Methods in Toxicology	4
PHAR-401	Thesis Writing for M.S	1
	Sub-Total Credits	19
	Total credits:	60