

PHARMACEUTICAL SCIENCES - M.S.

M.S., Pharmaceutical Sciences Requirements (33 Credits)

Code	Title	Credits
Electives		
List of elective courses offered by department of pharmacy sciences and other departments. On the recommendation of supervisor and thesis research committee, students may select courses from the following list depending on nature of their thesis research direction. Program director approval is needed if planning to enroll in a course not offered by department of pharmacy sciences.		
Biomedical Sciences		
BMS 760	Advance Topics in Neuroscience	3
BMS 730	Advanced Topics in Cell and Molecular Biology	3
Business Administration		
MBA 711	Managerial Finance	3
MBA 741	Economic Analysis for Managers	3
MBA 761	Marketing Management	3
Medical Microbiology/Immunology		
MIC 739	Bacterial Physiology	3
MIC 753	Advanced Antimicrobial Agents And Chemotherapy	3
MIC 746	Advanced Immunology	3
Pharmaceutical Sciences		
MPS 600	Ocular Pharmacology	2
MPS 603	Introduction to Pharmaceutical Materials Science	1
MPS 692	Directed Independent Study	1-5
MPS 693	Directed Independent Research	1-5
MPS 797	Master's Directed Independent Research	1-4
MPS 799	Master's Thesis	1-8
MPS 634	Pharmaceutical Dosage Forms and Drug Delivery Systems	2-3
MPS 633	Research Methods	1-3
Total Credits		34-55

Requirements for Specific Areas of Emphasis (The total credits show below are required for each specific emphasis area. The rest to make up for 33 credits should be taken from the list of electives)

Medicinal Chemistry

Code	Title	Credits
IDC 601	Responsible Conduct of Research	1
MPS 531	Chemical Basis Drug Action I	3
MPS 532	Chemical Basis Drug Action II	2
MPS 544	Introduction to Research Methods and Biostatistics	3
MPS 602	Analytic Aspects of Pharmaceutical Sciences Research	3
MPS 691	Pharmaceutical Science Seminar	1

MPS 792	Pharmaceutical Sciences Discussion Series	1
MPS 793	Pharmaceutical Sciences Presentation Series	1
MPS 799	Master's Thesis	8
Total Credits		23

Pharmaceutics

Code	Title	Credits
IDC 601	Responsible Conduct of Research	1
MPS 543	Basic Pharmacokinetics	2
MPS 544	Introduction to Research Methods and Biostatistics	3
MPS 602	Analytic Aspects of Pharmaceutical Sciences Research	3
MPS 617	Advanced Pharmaceutics	3
MPS 691	Pharmaceutical Science Seminar	1
MPS 792	Pharmaceutical Sciences Discussion Series	1
MPS 793	Pharmaceutical Sciences Presentation Series	1
MPS 799	Master's Thesis	8
Total Credits		23

Pharmacology

Code	Title	Credits
IDC 601	Responsible Conduct of Research	1
MPS 544	Introduction to Research Methods and Biostatistics	3
PHR 631	Medical Pharmacology I	5
PHR 632	Medical Pharmacology II	5
MPS 691	Pharmaceutical Science Seminar	1
MPS 792	Pharmaceutical Sciences Discussion Series	1
MPS 793	Pharmaceutical Sciences Presentation Series	1
MPS 799	Master's Thesis	8
Total Credits		25

Social and Administrative Pharmacy

Code	Title	Credits
IDC 601	Responsible Conduct of Research	1
MPS 544	Introduction to Research Methods and Biostatistics	3
MPS 621	Health Systems and Patient Safety	3
MPS 652	Pharmacoeconomics	3
MPS 691	Pharmaceutical Science Seminar	1
MPS 792	Pharmaceutical Sciences Discussion Series	1
MPS 793	Pharmaceutical Sciences Presentation Series	1
MPS 799	Master's Thesis	8
Total Credits		21