

**Master of Science Degree In Pharmaceutical Sciences
Specialization: Medicinal Chemistry**

REQUIRED CORE COURSES

MCM 265	Principles of Drug Design I	3
MCM 266	Principles of Drug Design II	3
PAS 252	Biostatistics	3
MCM 225	Biocatalysis in Drug Discovery	3
select one	PHS 212 Applied Biochemistry I or PHS 259 Cell Signals & Systems	<u>3</u>
		15
	Electives	9
	PHS 900 Masters Research (must register at least twice)	<u>6</u>
	total credits	30

ELECTIVE COURSES

MCM 101	Special Problems	3
PHS 256	Pharmaceutical Analysis Laboratory	3
MCM 245	Laboratory use of Radioisotopes	3
MCM 248	Receptors and Mechanism of Drug Action	3
MCM 255	Chemical Aspects of Drug Metabolism	3
MCM 223	Design of Nucleoside Analogs	3
MCM 231	Medicinal Chemistry Journal Club	2
MCM 263	Lab in Analysis of Biomacromolecules	3
MCM 267	Computer-Aided Drug Design	3
MCM 268	Drug Synthesis	3
MCM 269	Advanced Topics in Prodrug Design	3
MCM 270	Medicinal Chemistry of Antiviral and Anticancer Chemotherapeutic Agent	3
MCM 207	Peptides and Peptidomimetics	3

Elective courses offered by a different department such as Chemistry must be approved by the Major Advisor and the Department Chair.

PLAN A STUDENTS:

Core:	15 credits
Electives:	9 credits
Research:	6 credits
Total:	30 credits

PLAN B STUDENTS:

Core:	15 credits
Electives:	<u>18 credits</u>
Total:	33 credits

Please note it is mandatory for all Ph.D students to take PHS 212 Applied Biochemistry