Doctoral Degree In Pharmaceutical Sciences
Specialization: Medicinal Chemistry

60 credit program: 45 credits of course work beyond baccalaureate degree and a minimum of 15 credits of research PHS 950.
30 credit program: 15 credits beyond the M.S. degree including the basic requirements in area of specialty and a minimum of 15 credits of research PHS 950.

REQUIRED CORE COURSES

PAS 252	Biostatistics	3
PHS 212	Applied Biochemistry I	3
PHS 256	Pharmaceutical Analysis Lab	3
PHS 251	Doctoral Seminar I	0
PHS 252	Doctoral Seminar II	0
PHS 253	Doctoral Seminar III	0
PHS 254	Doctoral Seminar IV	1
PAS 265*	Scientific Inquiry: Regulation and Ethical Challenges	3*

ELECTIVE COURSES

MCM 265	Principles of Drug Design I	3
MCM 266	Principles of Drug Design II	3
MCM 101	Special Problems	3
MCM 223	Design of Nucleoside Analogs	3
MCM 225	Biocatalysis in Drug Discovery	3
MCM 231	Medicinal Chemistry Journal Club	2
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 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 Agents	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.

Please note course PAS 265* Scientific Inquiry: Regulation and Ethical Challenges is required but the credits will not be counted toward the degree credit requirement. Credits **do** count towards student status as full time students