

A**Combined BS/MS Program in Medicinal Chemistry**

There has been explosive growth in the need for students with a multidisciplinary background. This is never more apparent than in Medicinal Chemistry. Given this, we have developed a 5 year combined BS/MS degree program in Medicinal Chemistry where students take courses and laboratories in biochemistry, chemistry, medicine, and pharmacology plus perform undergraduate research. This is an exciting, streamlined program that provides students with a rigorous education in a wide range of disciplines.

B**Requirement for the Combined BS/MS Program in Medicinal Chemistry**Prerequisite Requirements

Course No.	Course Title	Cr. Hrs.
BIO 200	Evolutionary Biology (LEC + LAB)	4
BIO 201	Cell Biology (LEC + LAB)	4
CHE 101-102 or CHE 10x-10y (not 100)	Freshman Chemistry (LEC + LAB)	10
CHE 201-202 or CHE 251-251	Organic Chemistry (LEC + LAB)	10
MTH 141-142	College Calculus I & II (LEC)	8
PHY 107, 108, 158	General Physics I & II (LECs + LAB)	8
xxx	Distribution Requirements & Non-Science Electives	16

Courses in Major

Course No.	Course Title	Cr. Hrs.
BCH 403	Biochemical Principles (LEC)	4
CHE 349	Physical Chemistry for Life Sciences (LEC)	3
CHE 350	Physical Chemistry for Life Sciences (LAB)	1
CHE 412	The Chemistry of Biological Systems (LEC)*	3
MCH 408	Undergraduate Research	7

CHE 413	Instrumental Analysis (LEC + LAB)	4
CHE 455	Synthetic Organic Chemistry	3
MCH 501	Medicinal Chemistry (LEC)	3
CHE 502	Synthetic Organic Chemistry (LEC)	3
MCH 524	Mechanisms of Drug Action (LEC)	3
MCH 525/527	Molecular Modeling*	3
MCH 615-616	Graduate Research	20
MCH 622	Seminar	1
MCH 700	Thesis Guidance	1
PMY 501/502	Mechanism of Drug Action/ Toxicology & Chemotherapy*	4
xxx	General Electives & Distribution Req. Course	22
xxx	Science Electives	10

* Recommended course.

All other courses are required.