

MASTER OF SCIENCE IN BIOLOGY WITH SPECIALIZATION IN BIOCHEMISTRY

32-34 credit hours

The rigorous curriculum of our MS in Biochemistry specialization program allows the students to gain a firm foundation in the field of biochemistry, both in biological theory and experimentation, and to pursue a choice of many career paths after graduation.

Curriculum

Code	Title	Credit Hours
Required Courses		(21)
BIOL 501	Graduate Laboratory Techniques	2
BIOL 504	Biochemistry	3
BIOL 512	Advanced Biochemistry	3
BIOL 515	Molecular Biology	3
BIOL 533	Advanced Graduate Laboratory Techniques	3
BIOL 544	Molecular Biology of Cells	3
BIOL 555	Macromolecular Structure	3
or CHEM 505	Spectroscopic Methods I	
BIOL 595	Biology Colloquium	1
Research Course Requirements		(6)
Select one of the following options:		6
Option 1		
BIOL 581	Capstone	3
Select one additional elective		3
Option 2		
BIOL 522 & BIOL 523	Research Techniques in the Biological Sciences I and Research Techniques in Biological Sciences II	6
Option 3		
BIOL 591	Research and Thesis M.S.	6
Elective Courses		(5-6)
Select five to six credit hours		5-6
Any 500-level biology course		3
BIOL 410	Medical Microbiology	3
BIOL 415	Advanced Human Genetics	3
BIOL 426	Concepts of Cancer Biology	3
BIOL 430	Human Physiology	3
BIOL 440	Neurobiology	3
BIOL 597	Special Problems ¹	1-3
Total Credit Hours		32-33

¹ Student may be approved for special problems as appropriate.

Other requirements are identical to those described previously for all M.S. students in biology.