

MASTER OF SCIENCE IN BIOLOGY WITH SPECIALIZATION IN MICROBIOLOGY

32-34 credit hours

The MS with Microbiology specialization is designed to provide students with solid foundation in the area of microbiology. Our

rigorous curriculum combined with the research opportunities offered by the department provides the students with the knowledge, skills, and experiences to pursue careers in the field of Microbiology.

Curriculum

Code	Title	Credit Hours
Required Courses		(21)
BIOL 501	Graduate Laboratory Techniques	2
BIOL 503	Virology	3
or BIOL 550	Bioinformatics	
BIOL 504	Biochemistry	3
BIOL 515	Molecular Biology	3
BIOL 533	Advanced Graduate Laboratory Techniques	3
BIOL 542	Advanced Microbiology	3
BIOL 544	Molecular Biology of Cells	3
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		(5-7)
Select five to seven credit hours		5-7
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 514	Toxicology	3
BIOL 597	Special Problems ¹	1-3
Total Credit Hours		32-34

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.