

MASTER OF SCIENCE IN BIOLOGY WITH SPECIALIZATION IN CELL AND MOLECULAR BIOLOGY

32-34 credit hours

The Cell and Molecular Biology MS specialization is designed to provide students with solid foundation in the area of cell and molecular biology. Our rigorous curriculum combined with research

opportunities offered by the department provide the students with the knowledge, skills, and experiences to pursue careers in the field of Cell and Molecular Biology.

Curriculum

Code	Title	Credit Hours
Required Courses		(21)
BIOL 501	Graduate Laboratory Techniques	2
BIOL 504	Biochemistry	3
BIOL 515	Molecular Biology	3
BIOL 526	Developmental Biology	3
BIOL 533	Advanced Graduate Laboratory Techniques	3
BIOL 544	Molecular Biology of Cells	3
BIOL 545 or BIOL 527	Advanced Cell Biology Immunology and Immunochemistry	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		(5-6)
Select five to six credit hours		5-6
Any 500-level biology course		3
BIOL 410	Medical Microbiology	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 Students may be approved for special problems as appropriate.

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