

# MASTER OF SCIENCE IN BIOLOGY WITH SPECIALIZATION IN COMPUTATIONAL GENOMICS

Code	Title	Credit Hours
<b>Required Courses</b>		<b>(15)</b>
BIOL 501	Graduate Laboratory Techniques	2
BIOL 504	Biochemistry	3
BIOL 515	Molecular Biology	3
BIOL 533	Advanced Graduate Laboratory Techniques	3
BIOL 544	Molecular Biology of Cells	3
BIOL 595	Biology Colloquium	1
<b>Specialization Courses</b>		<b>(9)</b>
BIOL 521	Population Genetics	3
BIOL 550	Bioinformatics	3
BIOL 551	Microbial Genomics	3
<b>Research Course Requirements</b>		<b>(6)</b>
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
<b>Elective Courses</b>		<b>(3)</b>
Select three credit hours from the following:		3
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 <sup>1</sup>	1-3
<b>Total Credit Hours</b>		<b>33</b>

<sup>1</sup> Student may be approved for special problems as appropriate.