MS IN BIOLOGY Fall 2022 – Spring 2023

Requirement	Course	Credits	Term	Year	Grade
I. Core (12 credits)					
Graduate Seminar in Biology	BIO 510	3			
Experimental Design and Analysis	BIO 511	3 3			
Topics and Research Methods in C		erobial, and	Molecula	r Biolog	
Topics and Research Methods in E		olution, and	Organisn	nal Biol	ogy ——
II. Electives (15 credits)					
Select 15 credits from: Any other graduate					
six credits of 400-level biology courses, w					
of graduate course work from another dep	artment or u	ıniversity, p	ending ac	lvisor ap	pproval.
Electives – Thesis Option (9 credits) Select nine credits from: Any other gradua	nto biology	nource evec	nt DIO 5	01 and 5	302 Un to siv
credits of 400-level biology courses, wher					
graduate course work from another depart					
may not be repeats of courses unless the to					ovai. Licetives
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Common elective courses include:					
BIO 513 Research Techniques I	BIO 565	Immunolog	V		
BIO 514 Research Techniques II	BIO 566	Plant Physi		d Bioche	emistry
BIO 515 Research Techniques III	BIO 570	Population			
BIO 531 Molecular Genetics	BIO 571	Wetlands			
BIO 535 Course Topics in Biology I	BIO 575	Plant Comr	nunities		
BIO 536 Course Topics in Biology II	BIO 576	Freshwater			
BIO 537 Course Topics in Biology III	BIO 580	Light Micro	oscopy		
BIO 564 Microbial Physiology	BIO 585	Epidemiolo	gy		
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III. Research (3 credits)					
Directed Research in Biology@	BIO 591	3			
Research – Thesis Option (9 credits)					
Thesis Proposal#	BIO 608	3			
Thesis Research [^]	BIO 609	3			
Thesis and Defense*	BIO 610	3			

Notes and Requirements

- [®] The student must present the results of the project in an open seminar to complete BIO 591. In addition, the student must pass a written examination prepared by the student's Advisory Committee. Students who fail this examination will not receive a grade for the course.
- [#]A Thesis Committee must be formed and meet with the student to discuss course work and research ideas, and the Committee Composition section of the MS Student Progress Checklist Thesis Option must be completed and submitted to the Graduate Coordinator at least a week before the semester starts, or the student cannot enroll in BIO 608.
- ^A letter grade must be given for BIO 608 before the student can enroll in BIO 609. Paperwork must be filed at least a week prior to the start of the semester BIO 609 is to be conducted.
- *A letter grade must be given for BIO 609 before the student can enroll in BIO 610. Paperwork must be filed at least a week prior to the start of the semester BIO 610 is to be conducted. To complete BIO 610, the student must present their research in an open seminar and pass a thesis defense before their Thesis Committee. The degree will not be awarded until the Committee has accepted the thesis and it is signed by Graduate School Dean.

Part-time students will be required to take the same group of courses as full-time students except they must complete BIO 608 by the end of year three. As with full-time students, part-time students cannot take BIO 609 unless they have received a grade for BIO 608. In addition, they must take BIO 610 by the start of year six and complete it by the end of that year.

Suggested Sequence for the MS

 Semester #1 (9credits) BIO 510 (3) BIO 520 (3) Elective 1 (3)	 Semester #2 (9 credits) BIO 511 (3) BIO 521 (3) Elective 2 (3)
 Semester #3 (9 credits) Elective 3 (3) Elective 4 (3) Elective 5 (3)	Semester #4 (3 credits) BIO 591 (3)

Thesis Option

 Semester #1 (9credits) BIO 510 (3) BIO 520 (3) Elective 1 (3)	Semester #2 (9 credits) BIO 511 (3) BIO 521 (3) BIO 608 (3)
 Semester #3 (9 credits) BIO 609 (3) Elective 2 (3) Elective 3 (3)	Semester #4 (3 credits) BIO 610 (3)