MS IN BIOLOGY

Fall 2019 – Spring 2020

Requirement		Cou	rse (Credi	ts	Term	Year	Grade	
I. Core (12	2 credits)								
`	duate Seminar in Biology	BIO	510	3					
	perimental Design and An			_					
r		BIO		3					
Top	oics and Research Method	s in C	Cellular.	, Micı	robial	$\frac{1}{1}$, and M	1 olecul ar	Biology	
		BIO		3				C,	
Top	oics and Research Method	s in E	cology	, Evo	lution	$\overline{\mathbf{n}}$, and $\overline{0}$)rganism	al Biology	
		BIO	521	3					
H El 4	(4.7)								
	es (15 credits)	0.1	-1 1-: -1 -			1	DIO 502	II 4: 1	:46
	redits from: Any other 50								
	piology courses, where no k from another department								uate
course wor	k from anomer departmen	it of u	miveisi	ty, pe	namg	g auviso	or approv	al.	
Electives -	- Thesis Option (9 credits	s)							
	credits from: Any other 5		vel bio	logy (course	e, excei	ot BIO 59	91 and 593. Up	to six
	00-level biology courses,								
	ourse work from another d								
	repeats of courses unless								
•	•			_					
Electives to	o be selected from the follo	owing	g course	es:					
			T						
	Research Techniques I		BIO 5						
BIO 514	Research Techniques II		BIO 5					Biochemistry	
BIO 515	Research Techniques III		BIO 5				Biology		
BIO 531	Molecular Genetics		BIO 5		Wetla				
BIO 535	Course Topics in Biolog		BIO 5			Comm			
BIO 536	Course Topics in Biolog	y II	BIO 5	76	Fresh	water E	Ecology		
BIO 537	Course Topics in Biolog	y III	BIO 5	80	Light	Micros	сору		
BIO 564	Microbial Physiology		BIO 5	85	Epide	miolog	y		
	ch (3 credits)								
Dir	ect. Research in Biology@	BIO	591	3					
ъ .		`							
	- Thesis Option (9 credit	,	600	•					
Thesis Proposal [#] BIO			3						
Thesis Research BIO				3					
The	esis 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)