MS IN BIOLOGY

Fall 2021 – Spring 2022

Requirement		Cou	arse C	Credits	Term	Year	Grade	
•	2 credits)							
	raduate Seminar in Biology			3				
Ex	xperimental Design and An	-						
T	· 1D 1 M / 1		511	3	. 1 13	<u> </u>	D: 1	
10	opics and Research Method			Microbi	ial, and M	loleculai	r Biology	
т.) 520 Facility	5 E14:		<u> </u>	-1 D: -1	
10	opics and Research Method		Ecology,) 521	3	on, and C	rganism 	an Biology	
II. Electi	ves (15 credits)							
	credits from: Any other 50	0-lev	vel biolog	gy cours	e except I	BIO 593	. Up to six cre	dits of
	biology courses, where no							
course work from another department or university, pending advisor approval.								
Floativas	Thosis Ontion (0 avadit	a)						
	- Thesis Option (9 credit the credits from: Any other 5	,	aval biol	OGV COII	rca avcar	t RIO 5	01 and 503 II	n to siv
	400-level biology courses,							
	course work from another of							
_	be repeats of courses unless	_				_		
3	1		1	1	υ	υ	3	
Electives	to be selected from the foll	owin	g course.	s:				
DYO #12		1	DY0. 7.6	- -				1
	Research Techniques I				unology			
BIO 514	Research Techniques II		BIO 56				Biochemistry	
BIO 515	Research Techniques III		BIO 57		lation Bio	ology		
BIO 531	Molecular Genetics	T	BIO 57			•,•		
BIO 535	Course Topics in Biology		BIO 57:		t Commu			
BIO 536	Course Topics in Biology		BIO 570		nwater Ec			
BIO 537	Course Topics in Biology	111	BIO 58		t Microsc	1.0		
BIO 564	Microbial Physiology		BIO 58:	5 Epid	emiology			l
III D	l (2 l'4-)							
	arch (3 credits) irect. Research in Biology@	DIC	501	3				
D.	irect. Research in blology	DIC) 391	3				
Research	– Thesis Option (9 credit	(z)						
Thesis Proposal [#] BIO 608 3								
Thesis Research BIO 609			3					
Thesis and Defense* BIO 6			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)