

MS in General Biology Curriculum Map

(Rev. 2020)

Two aspects of the program require that the curriculum map be approached in a unique way. First, in an effort to maximize the flexibility of the program, it was not designed on a cohort model, so new students may join at any time. Second, the elective biology courses are offered on a four-year rotation, with all students taking at least 4 courses, and some taking up to 5 or 6. Due to these two factors, students do not take courses in a particular sequence, with the exception of BIO 6043 (taken first) and BIO 6082 (taken second).

For this reason, students have multiple chances to gain experience with, and to practice each of the PLO's. Although individual courses can't be identified as introducing, developing or mastering particular PLO's because students in the course are at different points in the program and will exhibit varying levels of expertise.

Courses	Program Learning Outcomes			
	1	2	3	4
Required course: BIO 6011 Learning in Science			I, D	
Required course: BIO 6043 Research Design		I	I	
Required course: BIO 6082 Pilot Study		D	D	
Required course: BIO 6033 History/Philosophy of Science				I,D, M, A*
Elective biology lecture/discussion/lab courses (must take 4, additional courses may be taken): BIO 6060, 6061, 6062, 6063, 6064, 6065, 6067, 6068 (These courses have similar formats and expectations, but within the context of different subtopics in the field of biology.)	I, D	I, D	I, D	I, D
Required of MS: Non-thesis option students only: BIO 6084 Comprehensive Exam	M,A*	M,A*	M,A*	
Required of MS Thesis-option students only: BIO 6083A (Thesis Proposal)			D	
Required of MS Thesis-option students only: BIO 6083B (IRB Proposal)				
Required of MS Thesis-option students only: BIO 6083C (Collect data)		D		
Required of MS Thesis-option students only: BIO 6083D (Analyze data/write)		D		
Required of MS Thesis-option students only:		D	D	

BIO 6083E (Write conclusions)				
Required of MS Thesis-option students only: BIO 6083F (Submit written thesis, Defend thesis)	M,A*	M,A*	M,A*	

*Course syllabus must include the PLO as well as description of how the PLO will be assessed.