

Courses	Program Learning Outcomes			
	1	2	3	4
Required course: BIO 611 Science Education Seminar			I, D	
Required course: BIO 643 Research Design		I	I	
Required course: BIO 682 Pilot Study		D ¹	D ¹	
Required course: BIO 633 History/Philosophy of Science				I, D, M ²
Elective biology lecture/discussion/lab courses (must take 4, additional courses may be taken): BIO 660, 661, 662, 663, 664, 665, 667, 668 (These courses have similar formats and expectations, but within the context of different subtopics in the field of biology.)	I, D ¹	I, D	I, D	I, D
Required of MA students only: MA exam at end of program	M ¹	M ¹	M ¹	
Required of MS students only: BIO 683A (Thesis Proposal)			D	
Required of MS students only: BIO 683B (IRB Proposal)				
Required of MS students only: BIO 683C (Collect data)		D		
Required of MS students only: BIO 683D (Analyze data/write)		D		
Required of MS students only: BIO 683E (Write conclusions)				
Required of MS students only: BIO 683F (Submit journal article and defend thesis)	M ¹	M ¹	M ¹	