Curriculum Ma	ар	
Degree:	M.S. Biology	

Instructions:

- Enter a course ONLY if that course is part of the requirement of the major (core/option requirement or elective).

- For each course, use the pull down list (click the cell, and the downward arrow will show) to indicate at what level the material is addressed for each SLO. Leave cell blank if the SLO doesn't apply to the course.

PLO1	PLO2	PLO3	PLO4	PLO5
Demonstrate a broad and sophisticated	Demonstrate expertise in a specific area of	Independently apply the scientific method	Clearly communicate the design and	Gather and evaluate primary scientific
understanding that contributes to	biological science.	to formulate testable biological	results of an observational or experimental	literature and judge the value of the
biological concepts and principles across all		hypotheses, analyze empirical data, and	analysis in a variety of formats, including	information presented in relation to
levels of biological organization, from ions		synthesize the results of the analysis.	the graduate thesis, scientific paper,	particular biological questions.
to ecosystems.			scientific poster, and oral presentation.	
ILO 1. Thinking and Reasoning. ILO 2.	ILO 1. Thinking and Reasoning. ILO 2.	ILO 1. Thinking and Reasoning. ILO 2.	ILO 1. Thinking and Reasoning. ILO 2.	ILO 1. Thinking and Reasoning. ILO 2.
Communication. ILO6. Specialized	Communication. ILO6. Specialized	Communication. ILO6. Specialized	Communication. ILO6. Specialized	Communication. ILO6. Specialized
Discipline	Discipline	Discipline	Discipline	Discipline

vels:	I = Introduced; P = Practic	ed; M = Mastered (terms a	dopted from WASC recommendations)

Course #	Course Title	PLO1	PLO2	PLO3	PLO4	PLO5
ore I:	Course True					
Biol 601A	Foundations of Scientific Research, 601A	x	x	I, P	I, P	I, P
Biol 601B	Foundations of Scientific Communication, 601B	x	x	I, P	I, P	I, P
Core II: Choose	at least 2 of the following courses with thesis advisor approval					
Biol 616	Cell and Molecular Biology I, 616	P	P	х	Р	P
Biol 618	Cell and Molecular Biology II, 618	P	P	P	P	P
Biol 631	Microbrial Physiology and Biochemistry, 631	P	P	P	P	P
Biol 652	Selected Topics in Ecology and Evolution, 652	P	P	x	Р	х
Biol 657	Environmental Experimental Analysis, 657	P	P	P	P	×
Biol 671	Advanced Topics in Physiology, 671	P	P	P	x	х
Seminar: Choos	e at least 1 but no more than 2 graduate seminars with thesis advisor a	pproval				
Biol 610	Seminar in Cell and Molecular Biology	P	M	P	P	P
Biol 630	Seminar in Microbiology	P	M	P	Р	P
Biol 650	Seminar in Ecology and Evolution	P	М	Р	Р	P
Biol 670	Seminar in Physiology	P	M	P	Р	P
Electives:						
Biol 602	Prep. for Undergraduate Instruction in Biology	P	P	x	P	×
Biol 620	Functional Genomics	P	P	Р	Р	Р
Biol 622	Advanced Molecular Techniques	P	P	Р	Р	Р
Biol 653	Community and Ecosystem Biology	P	P	×	Р	х
Biol 655	Phylogenetic Methods	P	P, M	P	P	P
Biol 672	Microscopic Methods	P	P, M	М	М	P
Biol 691	University Thesis 691	М	M	М	М	М
		1	1			
		1				