

**Curriculum Map**

Degree: **B.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.

**Levels:** I = Introduced; P = Practiced; M = Mastered (terms adopted from WASC recommendations)

PLO1	PLO2	PLO3	PLO4	PLO5
Demonstrate a basic mastery of biological concepts, particularly in the areas of evolution, cell/molecular biology, ecology, physiology, and organismal biology.	Demonstrate the ability to reason analytically and quantitatively.	Clearly communicate biological information in a variety of formats (written, oral, graphical, computational) using a style appropriate for the intended audience.	Apply methods of scientific inquiry—specifically, students will be able to formulate testable hypotheses, collect and analyze data.	Gather, interpret, and evaluate published scientific information.
ILO 1. Thinking and Reasoning	ILO 1. Thinking and Reasoning	ILO 2. Communication	ILO 1. Thinking and Reasoning	ILO 1. Thinking and Reasoning

Course #	Course Title	PLO1	PLO2	PLO3	PLO4	PLO5
BIOL 140A	Principles of Cell and Molecular Biology	I	I	I	I	I
BIOL 140B	Principles of Organismic Biology	I	I	I	I	I
BIOL 310	Genetic Analysis I	P	P	P	P	P
BIOL 315	Marine Biology	P	P	P	P	P
BIOL 320	Evolutionary Biology	P	P	P	P	P
BIOL 330	General Microbiology	P	P	P	P	P
BIOL 350	Ecology	P	P	P	P	P
BIOL 352	Biogeography	P	P	P	P	P
BIOL 368	Fungi of California	P	P	P	P	P
BIOL 370	Animal Physiology	P	P	P	P	P
BIOL 410	Genetic Analysis II	I/P	I/P	I/P	I/P	I/P
BIOL 415	PCR, Sequencing, Fragment Analysis	P	M	M	M	M
BIOL 420	Cell and Molecular Biology Undergraduate Seminar	M	P	M	M	P
BIOL 424	Bioinformatics	M	M	M	P	M
BIOL 425	Techniques Mammalian Cell Culture	M	M	M	M	M
BIOL 426	Advanced Molecular and Cell Biology (capstone)	M	M	M	M	M
BIOL 427	Molecular and Cell Biology Lab	P	M	M	M	M
BIOL 428	Genomics	M	M	M	M	M
BIOL 430	Microbial Physiology and Biochemistry (capstone)	M	M	M	M	M
BIOL 431	Medical Microbiology	M	P	P	M	P
BIOL 432	Microbe-host Interactions	M	M	M	M	M
BIOL 433	Microbial Ecology	M	M	M	M	M
BIOL 434	Molecular Microbiology	M	M	M	M	M
BIOL 440	Molecular Virology	M	M	M	M	M
BIOL 441	Parasitology	M	M	M	M	M
BIOL 442	Epidemiology	P	P	P	P	P
BIOL 443	Hematology	M	P	P	P	P
BIOL 444	Medical Entomology	M	P	M	P	M
BIOL 445	Immunology	M	P	M	M	M
BIOL 454	Biology of Fungi	P	P	P	P	P
BIOL 455	Vertebrate Biology	P		P		P
BIOL 458	Animal Behavior	M	P	P	P	P
BIOL 460	Ecology and Evolutionary Biology Undergraduate Seminar	M	P	P	P	M
BIOL 466	Population Biology	M	P	P	M	
BIOL 468	Molecular Ecology	M	M	M	M	
BIOL 469	Conservation Biology (capstone)	M	M	M	M	M
BIOL 470	Animal Senses	M	M	M		M
BIOL 471	Neurobiology	M	P			P
BIOL 472	Neurobiology Lab	M	M	M	M	M
BIOL 473	Comparative Physiology	M	P	P	P	P
BIOL 474	Biomedical Physiology	M	M	M	P	M
BIOL 475	Global Change Biology	M	M	M	M	M
BIOL 476	General Endocrinology	M	P	P	P	P
BIOL 488	Environmental Physiology (capstone)	M	M	M	M	M