

Point Loma Nazarene University		LO 1	LO 2	LO 3	LO 4	LO 5
Biology B.A. & B.S. Curriculum Map		Students will demonstrate an understanding of the process of science, and of the concepts and theories of biology across a broad range of organizational levels: molecular (M), cellular (C), organismal (O), and ecological (E).	Students will participate in the life of the department in Biology/Chemistry clubs or in various positions of responsibility such as graders, tutors, and teaching assistants	Students will develop career goals and define a path by which to achieve these goals	Students will develop a rationally defensible integration of science and faith.	Students will gain entry to professional or graduate schools, or to science-related careers.
Course	Course Title					
LOWER-DIVISION REQUIREMENTS		M	C	O	E	
BIO 210	Cell Biology and Biochemistry					
BIO 211	Ecological and Evolutionary Systems					
BIO 212	Organismal Biology					
UPPER-DIVISION REQUIREMENTS		M	C	O	E	
BIO 301	Research Methodology	D	D	D	D	
BIO 310	General Botany		D	M	D	
BIO 345	Genetics	D	D	D		D
BIO 360	Ecology			D	D	D
BIO 380	Molecular Biology	D/M	D		D	
BIO 420	Vertebrate Physiology		D	D/M		

BIO 497	Biology Seminar					M	
Track I Electives - Organismal	(minimum 8 units or minimum 1 course if Track II)	M	C	O	E		
BIO 315	Microbiology	D	D		D		
BIO 320	Marine Vertebrate Zoology			M		D	D
BIO 325	Insect Biology			D			
BIO 330	Marine Invertebrate Zoology (Quad)			M			D
BIO 340	Field Biology (Quad)			D	D		
BIO 370	Marine Plant and Microbial Life (Quad)			M			D
BIO 410	Vertebrate Biology			D/M	D/M		D/M
BIO 430	Animal Behavior			D/M	D/M		D/M
Track II Electives - Cell/Molecular	(minimum 9 units or minimum 1 course if Track I)	M	C	O	E		
BIO 315	Microbiology	D	D		D		
BIO 350	Advanced Cell Biology	M	M				
BIO 390	Immunology	M	M	M			

BIO 400	Developmental Biology	M M D			M	
BIO 450	Advanced Biochemistry	M M				
BIO 470	Neuroscience	D M M				
Extracurricular Activities						
Faculty Advising (required for registration clearance)				I, D, M		I
Pre-Health Advising				D, M		D
Pre-Teaching Advising				D, M		D
Undergraduate Research & Internships		M M M M		D, M		D
Participation in science clubs or as a grader, TA, or tutor			I, D, M			D
Post-baccalaureate Path						M