

Biological Sciences Courses and Student Learning Outcomes Matrix

I = Introduced

D = Further develop of SLO

M = Demonstrate Mastery

A = Evidence collected & evaluated for program-level assessment

Course Number	Course Name	Programmatic SLOs												
		1a: Processes that Unify & Diversify Organisms	1b: Flow & Expression of Biological Information	1c: Interdependence & Interrelationships	1d Diversity of Life	2a: Scientific Method	2b: Perform Experiments	3a Critical Thinking	3b: Quantitative Skills	3c: Information Skills	3d: Communication Skills	4. Influence science-society & environment	5. Demonstrate senior level content knowledge	
BIO 121/121L	Foundations I Cycles&Flows	I		I		I		I		I		I		I
BIO 122/122L	Foundations II Repro & Devt	I	I	I		I	I	I	I	I	I	I	I	I
BIO 123/123L	Foundations III-Biodiversity	I		I	I	I	I	I	I	I	I	I	I	I
BIO 211/211L	Biometrics					D,A	D,A	D,A	D,A	D,A				
BIO 230	Horizons in Biotech		D			D		D		D	D	D	D	
BIO 303	Genetics		D,A	M,A		D,A		M,A	M,A	M,A		D,A		
BIO 304	Environment & Society	D	D	D	D	D		D	D	D	D	D	D	
BIO 310	Cell & Molecular Biology	D	D			D		D		D	D	D	D	
BIO325/325L	Principles of Ecology	D		D	D	M	M	M	M	M	D	D		
BIO 340	Biodiversity Conservation	D		D	D	D		D		D		D		
BIO 413	Principles of Evolution	M	D		M	D		D	D	D	D	D	M,A	
BIO 428/L	Cell Physiology	M	D	M	D	M	M	M	D	D	M	D	M,A	
BIO 441	Internship in Biology							D		D	D			
BIO 450	Concepts of Molecular Bio	D	M			M		M		M	M	D	M,A	
BIO 451/L	Molecular Bio Techniques		M			M	M	M	M	M	M	D	M,A	
BIO 461	Undergrad Research					M	M	M	M	M				
BIO 490	Scientific Communication	A	A	A	A	A	A	A	A	M,A	M,A	A	A	
BOT 201/L	Form & Function in Plants	D		D	D	D	D	D				D		
BOT 323/L	Plant Pathology	D		D	D									
BOT 343/L	California Flora	M		M	M	M		M		M		M		
BOT 421/L	Plant Ecology	M		M	M	M	M	M	M	M	M			
BOT 428/L	Plant Physiology	M		M	M	M	M	M	M			M	M,A	
BOT 434/L	Evolution of Plants	M			M	M		M	M	M	M	D		
BOT 435/L	Plant Anatomy	M		M	M	M	M	M	M	M	M			
MIC 201/L	Basic Microbiology	D	D	D	D	I	D	I	I	I	I	I		
MIC 310/L	Applied Microbiology	D			I	I	D	D	D	D	D	D		
MIC 320/L	Food Microbiology	D			I	I	D	D	D	D	D	D		
MIC 410/L	Medical Bacteriology	M	D	D	D	M	D	M	M	D	D	D		
MIC 415/L	Immunology-Serology	M	D	M		M	M	M		D	D	D		
MIC 425/L	Medical Mycology	M		D		D	M	M		D	D	D		
MIC 428/L	Microbial Physiology	M	M	M	D	D	D	M	M	D	D	D	M,A	
MIC 430/L	General Virology	D	D	D		D	M	M	M	D	D	D		
MIC 444/L	Hematology	D	D	D		D	M	M		D	D	D		
MIC 445/L	Immunohematology	D	D	D		D	M	M	D	D	D	D		
ZOO 201/L	Animal Biology			D	D		D	D			D			
ZOO 235/L	Human Physiology	D		D		D	D	D	D	D	D			
ZOO 237/L	Invertebrate Zoology	M	D	M	M	D	D	D	D	D	M	D		
ZOO 238/L	Vertebrate Zoology	M		D	D	D	D	D		D	D	D		
ZOO 428/L	Animal Physiology			D		M	M	M	M	M	M	D	M,A	