

Student Learning Objectives for the BIOLOGY BS degree

1. Engage in projects that require contributions of multiple individuals, resulting in a product that reflects an ability to collaborate and communicate
2. Explain fundamental biological principles from the major areas of biology (cellular, molecular, physiological, organismal, ecological, and evolutionary)
3. Design a biological research study to answer a testable question, using appropriate and ethical research procedures for data collection and analysis
4. Communicate ideas related to biological concepts or the result of biological investigations, using professionally appropriate oral (e.g. poster or oral presentation) visual (e.g. graphs, tables, and written (e.g. research proposal, journal article) formats
5. Demonstrate intellectual independence by distinguishing between reliable and unreliable sources of information while respecting alternative possibilities and explanations
6. Discuss the intersection of biology and society, including the impact of biological issues on society, the importance of responsible conduct of research, and the role of society in supporting scientific endeavors

BIOL Courses	1 – Projects with teamwork	2 – Foundational knowledge	3 – Experimental Design	4 - Communication	5 – Information Literacy	6 – Science & Society
151	X	X		X		
152	X	X	X	X	X	X
251	X	X		X	X	X
252		X		X	X	X
253L	X	X	X	X	X	
254L	X	X	X	X		
302	X	X	X	X	X	X
303		X		X	X	X
309		X		X	X	
317	X	X		X	X	X
325	X	X		X	X	X
329	X	X	X	X		X
332	X	X	X	X	X	X
340		X				
345	X	X		X	X	X
361	X	X			X	X
362	X	X	X	X		X
398		X	X	X	X	X
400	X	X		X		X
401	X	X		X	X	X
402	X	X		X	X	
405		X	X	X		X
407	X	X		X	X	X
410	X	X	X	X	X	X
411		X			X	X
412	X	X	X	X	X	X
417		X		X	X	X
418L	X	X	X	X	X	
419	X	X	X	X	X	X
419L	X	X	X	X	X	X
422	X	X	X	X	X	X

BIOL Courses	1 – Projects with teamwork	2 – Foundational knowledge	3 – Experimental Design	4 - Communication	5 – Information Literacy	6 – Science & Society
424	X	X	X	X	X	X
426	X	X	X	X	X	X
427	X	X	X	X	X	X
428		X		X	X	X
429	X	X	X	X	X	X
430	X	X	X	X	X	X
438	X	X	X	X	X	X
441	X	X		X		X
443	X	X	X	X		X
444	X	X	X	X		
445	X	X		X	X	X
446	X	X	X	X	X	X
448	X	X	X	X	X	X
449	X	X	X	X	X	X
450	X	X	X	X	X	X
454L	X	X	X	X	X	X
461	X	X		X	X	X
462	X	X	X	X	X	X
468	X	X	X	X	X	X
470	X	X		X		X
472A	X	X	X	X	X	X
473	X	X	X	X	X	
475	X	X		X	X	X
478	X	X	X	X	X	X
479	X	X	X	X	X	X
490T	X	X	X	X	X	X
480C	X	X	X	X	X	X
480D		X		X	X	X
495		X		X	X	X
495C	X	X	X	X	X	X
498		X	X	X	X	
499L	X	X	X	X	X	X