

## Biology Department - Curriculum Map

		Biology Learning Goal	Definitions			Course Mapping– Core Sequence			Course Mapping– Electives	
			Benchmark	Milestone	Capstone	Benchmark	Milestone	Capstone	Benchmark	Milestone
LG1		Describe, interpret, and integrate the fundamental principles and theories that underlie our understanding of the living world, and the empirical evidence that supports that understanding	Describe	Describe and interpret	Describe, interpret, and integrate	BIOL 150	BIOL 190, BIOL 220, BIOL 250, BIOL 260	BIOL 497		BIOL 205, BIOL 215, BIOL 320, BIOL 330, BIOL 340, BIOL 360, BIOL 362
LG2	A	Explain the process of science, evaluate and critique its products	Explain	Explain and evaluate	Explain, evaluate, and critique	BIOL 150, BIOL 190, BIOL 220	BIOL 250, BIOL 260	BIOL 497	BIOL 205, BIOL 215	BIOL 330, BIOL 335, BIOL 320, Biol 340
LG2	B	Implement the process of science to develop hypotheses and models for experimentation in the context of biology	Limited depth and/or High levels of assistance	Moderate depth with some assistance	High depth/complexity, with little to no assistance		BIOL 150, BIOL 190, BIOL 220, BIOL 250, BIOL 260*	BIOL 260*, BIOL 497		BIOL 325, BIOL 320, BIOL 340, Biol 362
LG3	A1	Produce and deliver clear and effective oral communications of biological concepts and discoveries to specialized scientific audiences	Explain	Explain and evaluate	Explain, evaluate, and critique	BIOL 150, BIOL 190	BIOL 220, BIOL 260	BIOL 497	BIOL 205, BIOL 215	BIOL 335, BIOL 465, BIOL 470
	A2	...to the general public	Explain	Explain and evaluate	Explain, evaluate, and critique	BIOL 150		BIOL 260, BIOL 497		
LG3	B1	Produce and deliver clear and effective written communications of biological concepts and discoveries to specialized scientific audiences	Explain	Explain and evaluate	Explain, evaluate, and critique	BIOL 150	BIOL 190, BIOL 220, BIOL 250, BIOL 260	BIOL 497		BIOL 205, BIOL 215, BIOL 340, BIOL 425

	B2	...to the general public	Explain	Explain and evaluate	Explain, evaluate, and critique	BIOL 150		BIOL 260, BIOL 497		
LG4		Discuss and investigate how fields of biology are interconnected and engage with other scientific disciplines, including the growing role of interdisciplinarity in scientific research.	Recognize connections	Discover connections	Integrate, investigate, and apply connections	BIOL 150, BIOL 190, BIOL 220, BIOL 250	BIOL 220	BIOL 260, BIOL 497		BIOL 205, BIOL 215, BIOL 335, BIOL 355, BIOL 360, BIOL 470
LG5		Relate skills and knowledge of biology to other disciplines in the liberal arts and evaluate the ways in which the life sciences interface with various aspects of our society, including ethics and governance	Recognize connections	Discover connections	Integrate, evaluate, and apply connections	BIOL 150	BIOL 190, BIOL 220	BIOL 260, BIOL 497		BIOL 205, BIOL 215, BIOL 300, BIOL 320, BIOL 325, BIOL 335, BIOL 370, BIOL 425, BIOL 460, BIOL 470
		<b><i>*Most semesters, students achieve capstone level through an independent project; however occasionally students engage in more directed research, and thus reach milestone level</i></b>								