

Content Goals	Learning objectives	Core courses		List I courses						List II courses						List III courses				Electives					
		195	210	215	216	225	227	237	248	301	310	314	317	321	324	332	341	362	365	367	368	206	207	240	
1. Our students will understand and apply fundamental biological principles from each of the following four major areas of biology: cell biology; molecular biology and genetics; organismal biology; and ecology and evolution.	<b>Our students will be able to explain and apply their understanding of:</b>																								
	the basic chemical and molecular processes fundamental to living organisms		I							D			D	D	D	D	D	X		X					
	the basic form and function of cells		I							D				D	D	D	X	D			X				
	the organization and transfer of genetic information	I	X	X						X			D	X	X	D		D	X						
	the molecular basis of genetics		I	X						X			D	X	D	D		D	X						
	the diversity and adaptations of single-celled organisms	I			D													D			D		X	X	
	the diversity and adaptations of multicellular organisms	I			D	D	D	D	D	X	D	D	X		X	X		D				D	D	X	X
	the principles of evolutionary biology and the phylogenetic relationships of major groups of organisms	I			D	D	D	D		X	X	D	X						D		X	D	X	X	
	the ecological relationships between organisms and their environment	I			D	X	D	D	D	X	X	D	X					D	X			D	D	D	X
<b>Goal 2.</b> Our students will acquire in-depth knowledge of the major areas of biology and be able to integrate principles from these areas.	<b>Our students will be able to explain and apply their understanding of:</b>																								
	the relationship between structure and function in molecules, cells, and/or organisms	I	X	X	D	X	X		X	D		D	X	D	D	D	D	X	D				X	X	
	the importance of evolutionary theory as a unifying principle in biology	I	X	X	D	X	D	D	D		D	D									D	X	X	X	
	interactions between organisms and their abiotic and biotic environment	I		X	X	X	X	D	X		D	X		X	X	D	D		D		X	D	D	D	X
<b>Goal 3.</b> Our students will acquire scientific investigation skills	<b>Our students will be able to:</b>																								
	perform a variety of laboratory techniques	I	X		X			X				X	X		X	X	D	D	X						

