

## Department of Biology Graduation Checklist

LD= \_\_\_\_\_ Student: \_\_\_\_\_ E-mail \_\_\_\_\_  
 UD= \_\_\_\_\_ Last First  
 Advisor: \_\_\_\_\_

### BACHELOR OF SCIENCE IN BIOLOGY: CONCENTRATION IN PHYSIOLOGY

<b>Lower Division Requirements (38-39 units)</b>		<i>Units</i>	<input type="checkbox"/>	<i>Equiv. Form if any (✓)</i>
BIOL 230	Introductory Biology I	5		
BIOL 240	Introductory Biology II	5		
CHEM 115	General Chemistry I: Essential Concepts of Chemistry	5		
CHEM 130	General Organic Chemistry	3		
CHEM 215/216	General Chemistry II: Quantitative Appl. of Chem. Concepts (3/2)	5		
MATH 226	Calculus I	4		
<b><i>One course from the following (3-4):</i></b>				
MATH 124	Elementary Statistics (3)			
MATH 227	Calculus II (4)			
BIOL 458	Biometry (4)			
<b><i>One set of four courses from the following (8):</i></b>				
PHYS 111/112	General Physics I and Laboratory (3/1) <i>and</i>			
PHYS 121/122	General Physics II and Laboratory (3/1)			
	<i>or</i>			
PHYS 220/222	General Physics with Calculus I and Laboratory (3/1) <i>and</i>			
PHYS 230/232	General Physics with Calculus I and Laboratory (3/1)			
<b><i>Total lower division requirements:.....</i></b>		<b>38-39</b>		

### Upper Division Requirements (29-33 units)

BIOL 350	Cell Biology	3		
BIOL 355	Genetics	3		
<b><i>Units selected from the following (3):</i></b>				
CHEM 340	Biochemistry I (3)			
CHEM 349	General Biochemistry (3)			
<b><i>Physiology core courses from the following (one lecture must be BIOL 612 or BIOL 630) (9):</i></b>				
BIOL 525	Plant Physiology (3)			
BIOL 612	Human Physiology (3)			
BIOL 616	Cardiorespiratory Physiology (3)			
BIOL 617	Advanced Topics in Physiology (3)			
BIOL 620	Endocrinology (3)			
BIOL 621	Reproductive Physiology (3)			
BIOL 622	Hormones and Behavior (3)			
BIOL 630	Animal Physiology (3)			
BIOL 640	Cellular Neuroscience (3)			
BIOL 642	Neural Systems Physiology (3)			
<b><i>One physiology lab selected from the following (2-4):</i></b>				
BIOL 526	Plant Physiology Laboratory (2)			
BIOL 613	Human Physiology Laboratory (2)			
BIOL 631	Animal Physiology Laboratory (4)			

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*Electives selected in consultation with an advisor from the following (10-11):*

*(Criteria for selecting electives: 1 elective must contain a lab component; 1 elective must be chosen from each of the emphases below; additional electives may be selected from the list of physiology core courses and/or either of the emphases below.)*

### Cell and Molecular Emphasis

BIOL 351	Experiments in Cell and Molecular Biology (4)			
BIOL 357	Molecular Genetics (3)			
BIOL 361	Human Genetics (3)			
BIOL 382	Developmental Biology (3)			
BIOL 435	Immunology (3)			
BIOL 524	Plant Molecular Biology (3)			
BIOL 615	Molecular Pathophysiology (3)			
BIOL 652	Science Education Partners in Biology (3)			
BIOL 699	Special Study in Biology (1-3)*			
BIOL 730	Pharmacology			
BIOL 865	Advances in Physiology and Behavioral Biology (2)*			
CHEM 343	Biochemistry I Laboratory (3)			

### Ecological, Anatomical, and Evolutionary Emphasis

BIOL 328	Human Anatomy (4)			
BIOL 337	Evolution (3)			
BIOL 482	Ecology (4)			
BIOL 504	Biology of the Fungi (4)			
BIOL 505	Comparative Anatomy of Vascular Plants (4)			
BIOL 529	Plant Ecology (4)			
BIOL 555	Marine Invertebrate Zoology (4)			
BIOL 585	Marine Ecology (4)			
BIOL 600	General Animal Behavior (4)			
BIOL 606	Behavior and Physiology of Marine Mammals (3)			
BIOL 614	Vertebrate Histology (4)			
BIOL 652	Science Education Partners in Biology (3)			
BIOL 699	Special Study in Biology (1-3)*			
BIOL 865	Advances in Physiology and Behavioral Biology (2)*			

\* Courses may be used only once within the major. No more than one BIOL 699 or BIOL 865 may be used as an elective.

<b>Course Num.</b>	<b>Course Title</b>	<b>Units</b>

	<b>Required</b>	<b>Completed</b>
<b>Total upper division requirements:</b>	<b>29-33</b>	_____
<b>Total units for major</b>	<b>67-72</b>	_____