

Department of Biology Graduation Checklist

LD= _____ Student: _____ E-mail _____
 UD= _____ Last First
 Advisor: _____

BACHELOR OF SCIENCE IN BIOLOGY: CONCENTRATION IN CELL AND MOLECULAR

Lower Division Requirements (35-36 units)		<i>Units</i>	<i>✓</i>	<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 215/216	General Chemistry II: Quant. Appl. of Chem. Conc./Lab (3/2)	5		
MATH 226	Calculus I	4		

One course selected from the following (3-4):

MATH 124	Elementary Statistics (3)			
MATH 227	Calculus II (4)			
MATH 228	Calculus III (4)			
CSC 210	Introduction to Computer Programming (3)			
BIOL 458	Biometry (4)			
PHYS 111/112	General Physics I/Laboratory (3/1)	4		
PHYS 121/122	General Physics II/Laboratory (3/1)	4		
Total lower division requirements.....		35-36		

Upper Division Requirements (36 units)

BIOL 350	Cell Biology	3		
BIOL 351	Experiments in Cell and Molecular Biology	4		
BIOL 355	Genetics	3		
BIOL 357	Molecular Genetics	3		
BIOL 382	Developmental Biology	3		
CHEM 333	Organic Chemistry I	3		
CHEM 335	Organic Chemistry II	3		
CHEM 340	Biochemistry I	3		
CHEM 341	Biochemistry II	3		

Electives to include one course from each group below. Include one lab course (8):

Group A:

BIOL 380	Comparative Embryology (3)			
BIOL 401/402	General Microbiology and Laboratory (3/2)			
BIOL 450/451	Biology of the Protozoa and Laboratory (3/2)			
BIOL 525/526	Plant Physiology and Laboratory (3/2)			
BIOL 612/613	Human Physiology and Laboratory (3/2)			
BIOL 614	Vertebrate Histology (4)			
BIOL 630/631	Animal Physiology and Laboratory (3/2)			
BIOL 640	Cellular Neuroscience (3)			

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Group B:

BIOL 356	Honors Genetics (2)			
BIOL 358	Experimental Techniques in Molecular Biology (4)			
BIOL 361	Human Genetics (3)			
BIOL 391	Microscopy and Photomicrography (2)			
BIOL 420/421	General Virology and Laboratory (3/2)			
BIOL 435	Immunology (3)			
BIOL 442/443	Microbial Physiology and Laboratory (3/2)			
BIOL 524	Plant Molecular Biology (3)			
BIOL 620	Endocrinology (3)			
CHEM 300 <i>or</i> CHEM 343	General Physical Chemistry I (3) <i>or</i> Biochemistry I Laboratory (3)			
CHEM 351	Physical Chemistry I			

3 to 4 units of credit in graduate courses numbered BIOL 725-744, which accept qualified seniors, may be substituted with the advisor's approval.

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

	Required	Completed
Total upper division requirements:	36	_____
Total for major	71	_____