

Department of Biology Graduation Checklist

LD= _____ Student: _____
 UD= _____ Last First
 Advisor: _____

BACHELOR OF SCIENCE IN BIOLOGY: CONCENTRATION IN CELL AND MOLECULAR

Lower Division Requirements (34 units)		<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 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)			

Group B:

BIOL 343	Cellular and Molecular Immunology (3)			
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 442/443	Microbial Physiology and Laboratory (3/2)			
BIOL 524	Plant Molecular Biology (3)			
BIOL 620	Endocrinology (3)			
CHEM 300	General Physical Chemistry I (2) <i>or</i>			
CHEM 343	Biochemistry I Laboratory (3)			
CHEM 351	Physical Chemistry I			

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

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