



Scan QR Code to Make an Advising Appointment

**STARTING FALL 2019**  
**BACHELOR OF SCIENCE OR ARTS IN BIOLOGY**  
**WITH A CELL & MOLECULAR EMPHASIS**

**REQUIRED SCIENCE CORE COURSES**

COURSE	TITLE	CREDITS	SEMESTER
MATH 1170 OR MATH 1210	CALCULUS FOR BIOLOGISTS I OR CALCULUS I	4	
MATH 1180 OR MATH 1220	STATISTICS WITH CALCULUS FOR BIOLOGISTS OR CALCULUS II	4	
CHEM 1210	GENERAL CHEMISTRY I	4	
CHEM 1215	GENERAL CHEMISTRY LAB I	1	
CHEM 1220	GENERAL CHEMISTRY II	4	
CHEM 1225	GENERAL CHEMISTRY LAB II	1	
CHEM 2310	ORGANIC CHEMISTRY I	4	
PHYS 2010	GENERAL PHYSICS I	4	
PHYS 2020	GENERAL PHYSICS II	4	

**REQUIRED FUNDAMENTAL BIOLOGY COURSES**

COURSE	TITLE	CREDITS	SEMESTER
BIOL 1610	FUNDAMENTAL PRINCIPLES OF BIOLOGY I	4	
BIOL 1615	FUNDAMENTAL PRINCIPLES OF BIOLOGY LAB I	1	
BIOL 1620	FUNDAMENTAL PRINCIPLES OF BIOLOGY II	4	
BIOL 1625	FUNDAMENTAL PRINCIPLES OF BIOLOGY LAB II	1	

**EMPHASIS CORE COURSES**

COURSE	TITLE	CREDITS	SEMESTER
BIOL 2020 OR BIOL 2021	PRINCIPLES OF CELL BIOLOGY OR PRINCIPLES OF CELL SCIENCE (HONORS)	3 OR 4	
BIOL 2030	PRINCIPLES OF GENETICS	3	
BIOL 3510	BIOLOGICAL CHEMISTRY I	3	

**COMPLETE 1 EMPHASIS SPECIFIC COURSE**

**COURSES CANNOT DOUBLE COUNT IN EITHER SECTION**

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3370	MICROBIAL BIOLOGY	3	
BIOL 3410	ECOLOGY & EVOLUTION	3	
BIOL 3520	BIOLOGICAL CHEMISTRY II	3	
BIOL 5120	GENE EXPRESSION	3	
BIOL 5210	CELL STRUCTURE AND FUNCTION	3	

**COMPLETE 2 EMPHASIS ELECTIVE COURSES**

**COURSES CANNOT DOUBLE COUNT IN EITHER SECTION**

**1 MUST BE A 5000-LEVEL COURSE**

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3210	GENERAL & PATHOGENIC MICROBIOLOGY	3	
BIOL 3230	DEVELOPMENTAL BIOLOGY	3	
BIOL 3240	INTRO TO CELLULAR NEUROBIOLOGY	3	
BIOL 3370	MICROBIAL BIOLOGY	3	
BIOL 3410	ECOLOGY & EVOLUTION	3	
BIOL 3520	BIOLOGICAL CHEMISTRY II	3	
BIOL 3550	PHYSICAL PRINCIPLES IN BIOLOGY	3	
BIOL 5030	BASIC IMMUNOLOGY	3	
BIOL 5120	GENE EXPRESSION	3	
BIOL 5140	GENOME BIOLOGY	3	
BIOL 5210	CELL STRUCTURE AND FUNCTION	3	
BIOL 5510	GENES, DEVELOPMENT, AND EVOLUTION	3	
CHEM 5810	NANOSCIENCE	3	

**COMPLETE 1 EMPHASIS ELECTIVE COURSE**

COURSE	TITLE	CREDITS	SEMESTER
BIOL 3515	BIOLOGICAL CHEMISTRY LAB	3 [L1]	
BIOL 3525	MOLECULAR BIOLOGY OF A DNA LAB	3 [L2]	
BIOL 5255	PROKARYOTIC GENETICS	3 [L2]	



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**COMPLETE 2 5000-LEVEL BIOLOGY COURSES**

COURSE	TITLE	CREDITS	SEMESTER
BIOL 5_____			
BIOL 5_____			

**COMPLETE AT LEAST 2 ADDITIONAL BIOLOGY LAB COURSES**

**TOTALLING 3 LAB UNITS**

COURSE	TITLE	LAB UNITS	SEMESTER
BIOL 1615	FUNDAMENTAL PRINCIPLES OF BIOLOGY LAB I	1	
BIOL 1625	FUNDAMENTAL PRINCIPLES OF BIOLOGY LAB II	1	

**OTHER BIOLOGY COURSES NEEDED FOR THE REQUIRED 36 BIOLOGY HOURS  
OR REQUIRED 72 SCIENCE HOURS**

COURSE	TITLE	CREDITS	SEMESTER

**IMPORTANT INFORMATION TO REMEMBER**

Use this sheet and the Master List of Biology Courses with your Degree Dashboard to schedule your courses in a logical and functional sequence. YOU are responsible for ensuring that ALL requirements are met for the major AND that you have fulfilled ALL university requirements. Pay special attention when repeating courses and class time conflicts.

Students must complete a minimum of 40 upper division hours (3000+)

Students must complete a minimum of 72 Science hours

Students must complete a minimum of 36 Biology credit hours

Students must complete 21 Biology residency hours that must be taken at the U

NOTES