

## Electives towards the Biological Sciences Degree updated spring 2021

**How to check course code:** The 3rd digit in the course code reflects the course level. **Example:** BIOL 01301 Data Science for Biologists is a 300 level course- the 3rd digit in the code is a "3".

<u>Course #</u>	<u>Course</u>	<u>S.H.</u>	<u>Lab?</u>		
<b>Biological Sciences Department</b>				<b>Special Notes for BS:</b>	
BIOL 01301	Data Science for Biologists	4 s.h.	√	<ol style="list-style-type: none"> <li>1. Students must complete 22 credits of biology electives, 4 total approved labs, 3 of which must be upper level</li> <li>2. Not all courses are offered every semester</li> <li>3. You must earn a "C" or better in each biology elective to count towards the program</li> <li>4. Please refer to the program guides listed on the department website for more information</li> <li>5. NOTE: Only one 200+ level Biology lab can be used</li> </ol>	
BIOL 01310	Advanced Evolution	4 s.h.	√		
BIOL 01325	Mycology	4 s.h.	√		
BIOL 01341	Darwinian Medicine	3 s.h.	x		
BIOL 01350	Biodiversity & History of Life	3 s.h.	x		
BIOL 01351	Climate Change Biology	3 s.h.	x		
BIOL 01352	Ornithology	4 s.h.	√		
BIOL 01405	Conservation Biology	4 s.h.	√		
BIOL 01409	Regenerative Biology	3 s.h.	x		
BIOL 01428	Developmental Biology	4 s.h.	√		
BIOL 01430	Advanced Cell Biology	4 s.h.	√		
BIOL 01445	Special Topics in Biology -WI	3 s.h.	x		
BIOL 01454	Herpetology	4 s.h.	√		
BIOL 01458	Mammalogy	4 s.h.	√		
BIOL 01459	Genome Sciences	4 s.h.	√		
BIOL 01460	Animal Behavior	4 s.h.	√		
BIOL 01470	Ichthyology	4 s.h.	√		
BIOL 01475	Biology Lab/Field Research	3 s.h.	√	<b>Special Notes for BA:</b>	
BIOL 02301	Plant Diversity	4 s.h.	√	<ol style="list-style-type: none"> <li>1. Students must complete 15 credits of biology electives, including 3 approved upper level labs</li> <li>2. Not all courses are offered every semester</li> <li>3. You must earn a "C" or better in each biology elective to count towards the program</li> <li>4. Please refer to the program guides listed on the department website for more information</li> <li>5. Courses with (*) do not count towards the BA</li> </ol>	
BIOL 02410	Stream Ecology	4 s.h.	√		
BIOL 07300	Invertebrate Zoology	4 s.h.	√		
BIOL 07301	Comparative Vertebrate Anatomy	4 s.h.	√		
BIOL 10210	Human Anatomy & Physiology I *	4 s.h.	√		
BIOL 10212	Human Anatomy & Physiology II *	4 s.h.	√		
BIOL 11330	Microbiology	4 s.h.	√		
BIOL 11405	Environmental Microbiology	4 s.h.	√		
BIOL 14440	Intro to Biochemistry	3 s.h.	x		
BIOL 18360	Intro to Marine Biology	4 s.h.	√		
BIOL 18400	Limnology	4 s.h.	√		
BIOL 20310	Advanced Ecology	4 s.h.	√		
BIOL 20330	Environmental Science	4 s.h.	√		
BIOL 21401	Entomology	4 s.h.	√		
BIOL 22335	Advanced Genetics	4 s.h.	√		
<b>Molecular and Cellular Biosciences Department</b>					
MCB 01320	Introduction to Virology	4 s.h.	√		
MCB 01325	Immunology	4 s.h.	√		
MCB 01360	Biophysics I	4 s.h.	√		
MCB 01407	Molecular Microbiology	4 s.h.	√		
MCB 01414	General Aspects of Infectious Agents	3 s.h.	x		
MCB 01421	Foundations of Cell Culture Techniques	4 s.h.	√		

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MCB 01435	Cell Culture Technology	4 s.h.	√		
MCB 10345	Human Physiology	4 s.h.	√		
MCB 10346	Human Physiology Lecture	3 s.h.	x		
MCB 10481	Cellular/Molecular Neuroscience	3 s.h.	x		
MCB 22410	Concepts in Human Genetics	4 s.h.	√		
MCB 22450	Molecular Genetics	4 s.h.	√		
BINF 05355	Bioinformatics: Biological Applications	3 s.h.	x		
BINF 07250	Introduction to Bioinformatics	3 s.h.	x		
BINF 07399	Bioinformatics: Biochemical Applications	3 s.h.	x		
<b>Chemistry Department</b>					
CHEM 07410	Medicinal Chemistry	3 s.h.	x		
CHEM 07348	Biochemistry	4 s.h.	√		
<b>Computer Science Department</b>					
CS 04301	Bioinformatics: Computational Aspects	3 s.h.	x		