

Bachelor of Science in Biology

Natural Sciences Emphasis

2015 - 2016



GENERAL EDUCATION & INSTITUTIONAL REQUIREMENTS

	Requirement	Course	CR	Prerequisites & Notes	Grade	Semester
<input type="checkbox"/>	Computer Literacy	CIS 1200 <i>or</i> CIS 1201 <i>or</i> (CS 1400 and CS 1410)	0-6			
<input type="checkbox"/>	English	ENGL 1010 <i>or</i> ENGL 1010A <i>or</i> ENGL 1010D	0-4	English and Reading plcmnt scores; pre/corequisite LIB 1010		
<input type="checkbox"/>	English	ENGL 2010 <i>or</i> ENGL 2010A	3	ENGL 1010/A/D (C or higher) or ACT \geq 28; pre/corequisite LIB 1010		
<input type="checkbox"/>	Information Literacy	LIB 1000 <i>or</i> LIB 1010	0-1	English placement score for class		
<input type="checkbox"/>	Mathematics	<i>recommended: MATH 1040 or 1050</i>	3-5	Math placement score or MATH prerequisite		
<input type="checkbox"/>	American Institutions		3-6	Reading placement score		
<input type="checkbox"/>	Life Sciences	<i>recommended: BIOL 1610</i>	3-10			
<input type="checkbox"/>	Physical Sciences	<i>recommended: CHEM 1210</i>	3-5			
<input type="checkbox"/>	Laboratory Science	<i>recommended: BIOL 1615</i>	0-1			
<input type="checkbox"/>	Fine Arts		3			
<input type="checkbox"/>	Literature / Humanities		3			
<input type="checkbox"/>	Social & Behavioral Sciences		3			
<input type="checkbox"/>	Exploration	<i>recommended: PHYS 2010</i>	3-5	3-5 credits, prefix not used in other GE		
<input type="checkbox"/>	Global & Cultural Perspectives		0-3	- Complete two with different prefixes		
<input type="checkbox"/>	Global & Cultural Perspectives		0-3	- Can share credit with other GE		

OR

Associate of Arts or Associate of Science degree Date: _____ USHE? Y / N

BIOLOGY CORE REQUIREMENTS

17 credits

<input type="checkbox"/>	BIOL 1610/15 <i>or</i> 16010A/15A	Prin. of Biology I / Lab <i>or</i> Honors	4/1	GE: Life Sciences; GE: Laboratory Science		
<input type="checkbox"/>	BIOL 1620/25 <i>or</i> 1620A/25A	Prin. of Biology II / Lab <i>or</i> Honors	4/1	BIOL 1610/15 or BIOL 1610A/15A (both \geq C)		
<input type="checkbox"/>	BIOL 3010	Evolution	3	BIOL 1620/25 or BIOL 1620A/25A (both \geq C)		
<input type="checkbox"/>	BIOL 3030	Molecular Genetics	4	BIOL 1620/25 or BIOL 1620A/25A (both \geq C)		

ADDITIONAL BIOLOGY REQUIREMENTS

17-20 credits

<input type="checkbox"/>	BIOL 2400/05	Plant Kingdom / Lab	3/1			
<input type="checkbox"/>	BIOL 3040/45	General Ecology / Lab	3/1	BIOL 1620/25 <i>or</i> BIOL 1620A/25A (both \geq C)		

Complete **one (1)** of the following sets of courses:

<input type="checkbox"/>	BIOL 3340/45	Plant Anatomy / Lab	3/1	BIOL 1610/A, BIOL 1615/A, BIOL 2400/05		
<input type="checkbox"/>	BIOL 4200/05	Plant Taxonomy / Lab	2/2	BIOL 1610/A, BIOL 1615/A, BIOL 2400/05		
<input type="checkbox"/>	BIOL 4460/65	Plant Ecology / Lab	2/1	BIOL 3150/55 (C or higher)		
<input type="checkbox"/>	BIOL 4600/05	Plant Physiology / Lab	3/1	BIOL 3010, 3030, 3040/45; CHEM 1220 (all \geq C)		

Complete **two (2)** of the following sets of courses:

<input type="checkbox"/>	BIOL 3200/05	Invertebrate Zoology / Lab	3/1	BIOL 3010, BIOL 3030 (all \geq C)		
<input type="checkbox"/>	BIOL 4230/35	General Parasitology / Lab	3/1	BIOL 3010, BIOL 3030 (all \geq C)		
<input type="checkbox"/>	BIOL 4260/65	Herpetology / Lab	2/1	BIOL 3150/55 (both C or higher)		
<input type="checkbox"/>	BIOL 4270/75	Ichthyology / Lab	2/1	BIOL 3150/55 (both C or higher)		
<input type="checkbox"/>	BIOL 4280	Marine Biology	3	BIOL 3010, BIOL 3030, BIOL 3040/45 (all \geq C)		
<input type="checkbox"/>	BIOL 4350/55	Animal Behavior / Lab	3/1	BIOL 3010, BIOL 3030, BIOL 3040/45 (all \geq C)		
<input type="checkbox"/>	BIOL 4380/85	Ornithology / Lab	2/1	BIOL 3010, BIOL 3030, BIOL 3040/45 (all \geq C)		
<input type="checkbox"/>	BIOL 4411/15	Mammalogy / Lab	3/1	BIOL 3010, BIOL 3030, BIOL 3040/45 (all \geq C)		
<input type="checkbox"/>	BIOL 4440/45	General Entomology / Lab	3/1	BIOL 3150/55 (both C or higher)		

ADDITIONAL BIOLOGY REQUIREMENTS continued						
	Course Number	Description	CR	Prerequisites & Notes	Grade	Semester
<input type="checkbox"/>	BIOL 4910 or 4920	Senior Seminar I or Senior Seminar II	1	ENGL 2010/A & Advanced Standing		
MATHEMATICS & PHYSICAL SCIENCE REQUIREMENTS						24-27 credits
<input type="checkbox"/>	CHEM 1210/15 <i>and</i> CHEM 1220/25	Principles of Chemistry I / Lab & Principles of Chemistry II / Lab	4/1 4/1	MATH 1050 (grade≥C) or plcmnt score CHEM 1210/15 (grade≥C)		
<input type="checkbox"/>	ENVS 1010	Intro to Environmental Science	3			
<input type="checkbox"/>	GEO 1110/115	Physical Geology / Lab	3/1			
<input type="checkbox"/>	MATH 1040 <i>or</i> MATH 1050	Introduction to Statistics <i>or</i> College Algebra / Pre-Calculus	5	See Catalog for prereq; <i>GE: Math</i>		
<input type="checkbox"/>	PHYS 1010/15 <i>or</i> PHYS 2010/15	Elementary Physics / Lab College Physics I / Lab	3/1 4/1	See Catalog for prereq.		
Complete <i>one (1)</i> additional Physical Sciences (CHEM, ENVS, GEO, PHYS, GEOG 1000/05, GEOG 1020/25) course not used to fill another requirement.						
<input type="checkbox"/>			3-5			
BIOLOGY ELECTIVES						12 credits
Complete <i>12 credits</i> from the following or from any upper-division BIOL course listed above not already used to fulfill a requirement:						
<input type="checkbox"/>	BIOL 3100	Bioethics	3	BIOL 3010, BIOL 3030, BIOL 3040 (all ≥C)		
<input type="checkbox"/>	BIOL 3150/55	Biostatistics and the Scientific Method / Lab	2/1	MATH 1050, BIOL 3010, BIOL 3030 & BIOL 3040/45 (All grade C or higher)		
<input type="checkbox"/>	BIOL 3110	Scientific Writing	2	BIOL 3010, BIOL 3030(all ≥C); & ENGL 2010/A (can be concurrent)		
<input type="checkbox"/>	BIOL 3140/45	Comp. Vertebrate Anatomy / Lab	3/1	BIOL 3010, BIOL 3030 (all ≥C)		
<input type="checkbox"/>	BIOL 3250	Cancer Biology	2	BIOL 3010, BIOL 3030 (all ≥C)		
<input type="checkbox"/>	BIOL 3340/45	Plant Anatomy / Lab	3/1	BIOL 1620/25/A and BIOL 2400/05		
<input type="checkbox"/>	BIOL 3360	Developmental Biology	3	BIOL 3010, BIOL 3030, BIOL 3040 (all ≥C)		
<input type="checkbox"/>	BIOL 3450/55	General Microbiology / Lab	3/1	BIOL 3010, 3030; CHEM 2310/15 (all≥C)		
<input type="checkbox"/>	BIOL 3460	Biology of Infectious Disease	3	BIOL 3010, BIOL 3030, BIOL 3040 (all ≥C)		
<input type="checkbox"/>	BIOL 3470	Introduction to Immunology	3	BIOL 3010, BIOL 3030, BIOL 3040 (all ≥C)		
<input type="checkbox"/>	BIOL 3550/55	Eukaryotic Cell Biology / Lab	3/1	BIOL 3010, BIOL 3030 & CHEM 2310 (all ≥C)		
<input type="checkbox"/>	BIOL 4190/95	Mammalian Histology / Lab	3/1	BIOL 3010, BIOL 3030 (all ≥C)		
<input type="checkbox"/>	BIOL 4240	Virology	4	BIOL 3450/55 or BIOL 3550/55 (all ≥C)		
<input type="checkbox"/>	BIOL 4300/05	Molecular Biology / Lab	3/1	BIOL 3450/55 or BIOL 3550/55 (both ≥C)		
<input type="checkbox"/>	BIOL 4500/05	Comp Vertebrate Physiology / Lab	3/1	BIOL 3010, BIOL 3030 & CHEM 1220 (all ≥C)		
<input type="checkbox"/>	BIOL 4810R or 4820R or 4830R	Independent Research	1-4	See Catalog		
<input type="checkbox"/>	BIOL 4930R	Senior Thesis	1-4	Senior, inst perm, BIOL 3110 (or concurrent)		
GRADUATION REQUIREMENTS						
<input type="checkbox"/> Subtract duplicated and developmental (0990 and below) credits. <input type="checkbox"/> Minimum 120 college-level credits (1000 and above). <input type="checkbox"/> At least 40 upper-division credits (3000 and above). <input type="checkbox"/> At least 30 upper-division credits at DSU for institutional residency <input type="checkbox"/> Cumulative GPA 2.0 or higher. <input type="checkbox"/> Grade C or higher required (not C-) in each Program Requirement, Core Discipline Requirement, and Biology Elective Requirement course. <input type="checkbox"/> Maximum 6 total credits of BIOL 4810R, BIOL 4820R, BIOL 4830R, and/or BIOL 4930R may be used toward Biology requirements.						