

BS in Biology with Integrated Science

Biology/Integrated Science Secondary Education Emphasis

2015 - 2016



GENERAL EDUCATION & INSTITUTIONAL REQUIREMENTS Minimum 30 credits

	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		3-5	Math placement score or prerequisite		
<input type="checkbox"/>	American Institutions	HIST 1700 <i>or</i> POLS 1100	3	program requirement		
<input type="checkbox"/>	Life Sciences		3-10			
<input type="checkbox"/>	Physical Sciences		3-5			
<input type="checkbox"/>	Laboratory Science		0-1			
<input type="checkbox"/>	Fine Arts		3			
<input type="checkbox"/>	Literature / Humanities		3			
<input type="checkbox"/>	Social & Behavioral Sciences	FCS 1500 <i>or</i> PSY 1010/1010A <i>or</i> PSY 1100	3	program requirement		
<input type="checkbox"/>	Exploration		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

<input type="checkbox"/>	Associate of Arts or Associate of Science degree	Date:	USHE? Y / N
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RECOMMENDED ELECTIVE

	Course Number	Description	CR	Prerequisites & Notes	Grade	Semester
<input type="checkbox"/>	BIOL 1001	FYE: Biology	1			

BIOLOGY PROGRAM REQUIREMENTS 20-22 credits

<input type="checkbox"/>	CHEM 1210/15	Principles of Chemistry I / Lab	5	MATH 1050 (grade \geq C) <i>or</i> plcmnt score		
<input type="checkbox"/>	CHEM 1220/25	Principles of Chemistry II / Lab	5	CHEM 1210/15 (grade \geq C)		
<input type="checkbox"/>	PHYS 2010/15	College Physics I / Lab	5	MATH 1060 <i>or</i> MATH 1080		
<input type="checkbox"/>	MATH 1050 <i>and</i> MATH 1060 <i>or</i> MATH 1080	College Algebra / Pre-Calculus & Trig <i>or</i> Pre-Calculus with Trigonometry	7 5	See Catalog for prerequisites		

BIOLOGY CORE REQUIREMENTS 34 credits

<input type="checkbox"/>	BIOL 1610/15 <i>or</i> BIOL 1610A/15A	Principles of Biology I / Lab <i>or</i> Honors Principles of Biology I / Lab	5	GE: Life Sciences; GE: Laboratory Science		
<input type="checkbox"/>	BIOL 1620/25 <i>or</i> BIOL 1620A/25A	Principles of Biology II / Lab <i>or</i> Honors Principles of Biology II / Lab	5	BIOL 1610/15 <i>or</i> BIOL 1610A/15A (both \geq C)		
<input type="checkbox"/>	BIOL 2320/25 <i>or</i> BIOL 3140/45	Human Anatomy / Lab <i>or</i> Comparative Vertebrate Anatomy/Lab	5	See Catalog for prerequisites		
<input type="checkbox"/>	BIOL 2420/25 <i>or</i> BIOL 4500/05	Human Physiology / Lab <i>or</i> Comparative Vertebrate Physio / Lab	4	See Catalog for prerequisites		
<input type="checkbox"/>	BIOL 3010	Evolution	3	BIOL 1620/25 <i>or</i> BIOL 1620A/25A (both \geq C)		
<input type="checkbox"/>	BIOL 3030	Molecular Genetics	4	BIOL 1620/25 <i>or</i> BIOL 1620A/25A (both \geq C)		
<input type="checkbox"/>	BIOL 3040/45	General Ecology / Lab	4	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 3450/55	General Microbiology / Lab	4	BIOL 3010, 3030; CHEM 2310/15 (all \geq C)		
	BIOL 3550/55	Eukaryotic Cell Biology / Lab				

REQUIRED BIOLOGY ELECTIVES						7-8 credits	
	Course Number	Description	CR	Prerequisites & Notes	Grade	Semester	
<input type="checkbox"/>	BIOL 2400/05	Plant Kingdom / Lab	4				
Complete <i>one (1)</i> of the following sets of Zoology courses:							
<input type="checkbox"/>	BIOL 3200/05	Invertebrate Zoology / Lab	4	BIOL 3010 & BIOL 3030 (both ≥C)			
	BIOL 4260/65	Herpetology / Lab	3	BIOL 3150/55 (both C or higher)			
	BIOL 4270/75	Ichthyology / Lab	3	BIOL 3150/55 (both C or higher)			
	BIOL 4350/55	Animal Behavior / Lab	4	BIOL 3010, BIOL 3030, BIOL 3040/45 (all ≥C)			
	BIOL 4380/85	Ornithology / Lab	3	BIOL 3010, BIOL 3030, BIOL 3040/45 (all ≥C)			
	BIOL 4411/15	Mammalogy / Lab	4	BIOL 3010, BIOL 3030, BIOL 3040/45 (all ≥C)			
	BIOL 4440/ BIOL 4445	General Entomology / Lab	4	BIOL 3150/55 (Grade C or higher)			
INTEGRATED SCIENCE REQUIREMENTS						12 credits	
<input type="checkbox"/>	GEO 1110/15	Physical Geology / Lab	4				
<input type="checkbox"/>	GEOG 1020/25	Introduction to Weather / Lab	4				
<input type="checkbox"/>	PHYS 1040/45	Elementary Astronomy / Lab	4	Math plcmnt score ≥23 <i>or</i> MATH 1000 (≥C) <i>or</i> MATH 1010 (≥C)			
LAB SAFETY CERTIFICATION REQUIREMENT							
<input type="checkbox"/>	SCI 2600	Lab Safety for Teachers	1				
SECONDARY EDUCATION PROGRAM PREREQUISITE COURSES						15 credits	
<input type="checkbox"/>	EDUC 1010	Intro to Education	3				
<input type="checkbox"/>	EDUC 2010	Intro to Exceptional Learners	3				
<input type="checkbox"/>	EDUC 2400	Foundations of Multicultural & ESL	3	GE: GLOCUP			
<input type="checkbox"/>	EDUC 2500	Tech / Educ. / Electronic Portfolio	3				
<input type="checkbox"/>	EDUC 3110	Educational Psychology	3	FCS 1500 <i>or</i> PSY 1010/A <i>or</i> PSY 1100			
SECONDARY EDUCATION PROFESSIONAL REQUIREMENTS (Admission to DSU SET program required)						24 credits	
To be admitted to the SET program and enroll in professional courses, candidates must maintain a cumulative university GPA of 3.0, and receive a C or better in all education related courses and major required content courses. Students must pass the appropriate PRAXIS II Content Knowledge Test(s). In addition, one of the following must be completed:							
* Students with BA/BS degrees in progress must have completed at least 95% of major coursework and have approval of major academic content area department advisor							
* Students with completed BA/BS or higher degrees must have their transcripts reviewed by their content area department advisor							
<i>Semester I</i>							
<input type="checkbox"/>	BIOL 4130 <i>or</i> SCI 4700	Biology Teaching Methods <i>or</i> Secondary Science Teaching Methods	3				
<input type="checkbox"/>	SCED 3720	Reading / Writing in Content Areas	3				
<input type="checkbox"/>	SCED 4100	Curriculum, Instruction, Assessment	3				
<input type="checkbox"/>	SCED 4600	Classroom Management	3				
<i>Semester II</i>							
<input type="checkbox"/>	SCED 4900	Secondary Student Teaching	10	Corequisite SCED 4989			
<input type="checkbox"/>	SCED 4989	Student Teacher Seminar	2	Corequisite SCED 4900			
GRADUATION REQUIREMENTS							
<input type="checkbox"/> Subtract duplicated and developmental (0990 and below) credits							
<input type="checkbox"/> Complete a minimum of 129 college-level credits (1000 and above)							
<input type="checkbox"/> Complete at least 40 upper-division credits (3000 and above)							
<input type="checkbox"/> Complete at least 30 upper-division credits at DSU for institutional residency							
<input type="checkbox"/> Grade C or higher in all education related courses and major required content courses							
<input type="checkbox"/> 3.0 GPA in program prerequisite and professional Education and Secondary Education courses							
<input type="checkbox"/> Cumulative university GPA 3.0 or higher							