Bachelor of Science in Biology -- 120 Credits

JBIOL-BS (RG 7612) Effective August 2025

GENERAL EDUCATION REQUIREMENTS

REQUIRED COURSES (RG 6813) WORLDS OF KNOWLEDGE (RG 6825) Foundational Courses CR Satisfied/Term Aesthetic and Creative Expression Global History & Culture CR Satisfied/Term CR Satisfied/Term Engcmp 0005 Composition I 3 Number Course Title Number Course Title Subject Subject Engcmp 0006 3 3 Composition II 3 CommRc 0052 Public Speaking 3 3 **Basic Algebra or Placement Test** Societies & Civics Science & Nature Math 0001 Algebra 1 3 Quantitative Reasoning (QR) - 1 Course CR Satisfied/Term Subject Subject Number Course Title Number Course Title CR Satisfied/Terr Note - a student cannot test out of their QR requirement. 3 Chem 0111 General Chemistry 1 3 ath 3 3 0221 Analytic Geom & Calc 1 4 FREE ELECTIVES Follow-Up Courses Free electives are the balance of credits required for Subject Number Course Title CR Satisfied/Term raduation (120) that are not used to satisfy competencies Chem 0112 General Chemistry 2 3 nowledge areas, major requirements, electives, or any Phys 4 lated area required by the department CR Satisfied/Term ach student must take 2 courses in each World of Knowledge. The 8 courses taken in the Worlds must epresent 8 different Subjects. A student must take two additional "Follow-Up" courses in any World. The minimum number of courses taken in the Worlds must be 10. The Follow-Up courses may repeat a subject previously taken in a World.

A student cannot use a major required Subject course in one of the Worlds.

For example: A Biology student cannot use BIOL 0110 to fulfill a requirement in the Science and Nature World.

Complete one course from each of the following elective areas, and additional biology electives for a total of 17 credits.

(RQ 3903-20)

Biol 1122

Biol 1130

Biol 1144

Biol 1224

Biol 1269

Organismal Elective

Requirement Satisfied

Select one course from the following courses

Human Anatomy

Biology of Plants

Invertebrate Biology

Human Physiology

Vertebrate Biology

Students cannot use a course to count both in their QR requirement and one of the Worlds.

Students can choose QR and Worlds of Knowledge courses from published course lists

MAJOR REQUIREMENTS (RG 7612)

Required C	Courses (RQ 3741)	CR	Satisfied/Term	
Biol 0130	Biol Freshman Seminar	1		
Biol 0110	General Biology 1	3		
Biol 0111	General Biology 1 Lab	1		
Biol 0120	General Biology 2	3		
Biol 0121	General Biology 2 Lab	1		
Biol 0340	Ecology	3		
Biol 0360	Cell Biology	3		
Biol 0361	Cell Biology Lab	1		
Requireme	nt Satisfied	16		
Required C	chemistry (RQ 3742)	CR	Satisfied/Term	
Chem 0111	General Chemistry 1	3		
Chem 0113	General Chemistry 1 Lab	1		
01 0110		-		

Required Math (RO 3743)		CR	Satisfia	d/Term	
Requirement Satisfied 6					
Requirement Satisfied		8			
Chem 0114	General Chemistry 2 Lab	1			
Chem 0112	General Chemistry 2	3			
Chem 0113	General Chemistry 1 Lab	1			

Required Math (RQ 3743)		Satisfied/Term	
Math 0221 Analytic Geom & Calc	1 4		
Requirement Satisfied	4		

(RQ 3745)			
Required U	pper Level Chem Options	CR	Satisfied/Term
Chem 0231	Organic Chemistry 1	3	
Chem 0233	Organic Chemistry 1 Lab	1	
Chem 0232	Organic Chemistry 2	3	
Chem 0234	Organic Chemistry 2 Lab	1	
OR			
Chem 0230	Fund of Organic Chem	4	
Chem 0235	Fund of Organic Chem Lab	1	
Chem 0325	Analytical Chemistry	4	
Requireme	nt Satisfied	8 or 1	9

Required Physics options (RQ 3746)		Satisfied/Term	
Phys 0140 Intro to Physics 1			
or Phys 0150 Physics 1			
Phys 0141 Experimental Physics 1			
or Phys 0151 Physics 1 Lab			
Requirement Satisfied			

Updated 03/28/25

IMPORTANT INFORMATION:

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.

(Must include a minimum of 2 laboratory credits and Capstone courses may only satisfy one elective area.) (RQ 3903-10) Cellular and Molecular Elective CR Satisfied/Term Select one course from the following courses Biol 0352 Genetics 3 Biol 1126 Human Nutrition 3 Biol 1137 Molecular Genetics (C) 3 Biol 1140 Cancer Biology (C) 3 Biol 1186 Immunology (C) 3 Biol 1236 Developmental Biology 3 Microbiology Biol 1240 3 Biol 1280 Special Topics - C & M 3

RQ 3903-3	0)		
Ecology and Evolution Elective		CR	Satisfied/Term
Select one course from the following courses			
Biol 1110	Biodiver Conservation	3	
Biol 1162	Plant Diversity & Local Flora	3	
Biol 1165	Evolution	3	
Biol 1197	Ecol of Infect Disease (C)	3	
Biol 1220	Wildlife Management	3	
Biol 1232	Animal Behavior	3	
Biol 1280	Special Topics - E & E	3	
Biol 1520	Aquatic Ecology (C)	3	

(RQ 3903-50)	
Additional Biology Electives	

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Biology Electives (RQ 3903)

Iditional Biology Electives		Satisfied/Term	

Biol 1274	Ornithology	3		
Biol 1280	Special Topics - Org	3		
(RQ 3903-	,			
Capstone Experience		CR	Satisfie	d/Term
Minimum	1 credit, Included as Biol Elective	e Credit		
Biol 1111	Biodiversity Conservation Lab	1		
Biol 1137	Molecular Genetics (C)	3		
Biol 1140	Cancer Biology (C)	3		
Biol 1145	Invertebrate Biology Lab	1		
Biol 1161	Internship	1 to 15		
Biol 1186	Immunology (C)	3		
Biol 1197	Ecol of Infect Disease (C)	3		
Biol 1200	Independent Study	1 to 6		
Biol 1221	Wildlife Management Lab	1		
Biol 1225	Human Physiology Lab	1		
Biol 1233	Animal Behavior Lab	1		
Biol 1237	Developmental Biology Lab	1		
Biol 1520	Aquatic Ecology (C)	3		

CR Satisfied/Ter

3

3

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3

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17

Verify Biology Lab Requirement m of 2 Labs within Required 17 Elective Credits

Major GPA (RG 3747)

Residency (RG 3748)

Upper Level Interdiscip. Science Elective (RQ 3740) elect one course from the following courses Prereqs must be fulfilled (* Prereq may be waived) CR isfied/Term Chem 1321 Biochemistry 1 4 Geo 0920 Geomorphology 4 4 Geo 0940 Paleontology* Sustainble Food and Agriculture 3 Geo 1030 Geo 1110 Hydric Soils and Wetlands' 4 Math 0231 Calculus 2 4 Phys 0142/0143 Intro Physics 2 & lab 5 Phys 0152/0153 Physics 2 & lab 5 3 Psy 0211 Comparative Psych Psy 0351 Psychopharmacology 3 Psy 1141 Psychopathology 3 Psy 1216 Health Psychology 3 Psy 1440 Psych Learning & Lab 4 Psy 1500 Physiological Psych 3 Psy 1650 Advanced Seminar S

Curriculum Requirements 2025-2026