Bachelor of Science in Biochemistry -- 120 Credits

JBIOCHM-BS (RG 4735)

Effective August 2022

GENERAL EDUCATION REQUIREMENTS

REQUIRED COURSES (RG 6813)

Foundational Courses		CR	Satisfied/Term	
Engcmp 0005	Composition I	3		
Engcmp 0006	Composition II	3		
CommRc 0052	Public Speaking	3		
Basic Algebra or Placement Test				
Math 0001	Algebra 1	3		
Quantitative Reasoning (QR) - 1 Course				
Note - a student cannot test out of their QR requirement.				
		3		

FREE ELECTIVES

Free electives are the balance of credits required for graduation (120) that are not used to satisfy competencies, knowledge areas, major requirements, electives, or any related area required by the department.

	CR	Satisfied/Term	

WORLDS OF KNOWLEDGE (RG 6825)

Aesthetic and Creative Expression (RQ 3148)					
Subject	Number	Course Title	CR	Satisfied/Term	
			3		
			3		

Societies & Civics (RQ 3150)					
Subject	Number	Course Title	CR	Satisfied/Term	
			3		
			3		

Follow-Up Courses (RQ 3154)					
Subject	Number	Course Title	CR	Satisfied/Term	
Biol	0120	Gen. Biology 2	3		
Phys	0152	Physics 2	4		

Global History & Culture (RQ 3149)					
Subject	Number	Course Title	CR	Satisfied/Term	
			3		
			3		

Science & Nature (RQ 3153)					
Subject	Number	Course Title	CR	Satisfied/Term	
Biol	0110	General Biology 1	3		
Phys	0150	Physics 1	4		

Each student must take 2 courses in each World of Knowledge. The two courses taken within each World must be from different subjects. A student must take two additional "Follow-Up" courses from 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.*

>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 4735)

Required Biology Courses (RQ 3538)		CR	Satisfied/Term	
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 0360	Cell Biology	3		
Biol 0361	Cell Biology Lab 1	1		
Requirement Satisfied		**12**		

Required Chemistry Courses (RQ 3539)		CR	Satisfied/Term	
Chem 0111	General Chemistry 1	3		
Chem 0112	General Chemistry 2	3		
Chem 0113	General Chemistry 1 Lab	1		
Chem 0114	General Chemistry 2 Lab	1		
Chem 0231	Organic Chemistry 1	3		
Chem 0232	Organic Chemistry 2	3		
Chem 0233	Organic Chemistry 1 Lab	1		
Chem 0234	Organic Chemistry 2 Lab	1		
Chem 0325	Analytical Chemistry	4		
Chem 1131	Inorganic Chemistry	3		
Chem 1133	Synthesis & Char Lab	1		
Chem 1321	Biochemistry 1	3		
Chem 1323	Biochemistry Lab	1		
Chem 1322	Biochemistry 2	3		
Chem 1341	Physical Chemistry 1			
or Chem 1342	Physical Chemistry 2	3		
Requirement Satisfied		**34**		

Required Mathematics Courses (RQ 3540		CR	Satisfied/Term	
Math 0221	Analytic Geom & Calc 1	4		
Math 0231	Analytic Geom & Calc 2	4		
Requirement Satisfied		**8**		

Required Physics Courses (RQ 3541)		CR	Satisfied/Term	
Phys 0150	Physics 1	4		
Phys 0151	Physics 1 Lab	1		
Phys 0152	Physics 2	4		
Phys 0153	Physics 2 Lab	1		
Requirement Satisfied		**10**		

Biology Elective - Lecture w/lab (RQ 1968)			
Complete one of the following	CR	Satisfied/Term	
Biol 1224 Human Physiology	3		
and Biol 1225 Human Physiology Lab	1		
Biol 1130 Biology of Plants	3		
and Biol 1131 Biology of Plants Lab	1		
Biol 1236 Developmental Biology	3		
and Biol 1237 Developmental Biology Lab	1		
Biol 1240 Microbiology	3		
and Biol 1241 Microbiology Lab	1		
Requirement Satisfied	**4**		

Additional Biology Elective (RQ 4377)			
Complete one of the following	CR	Satisfied/Term	
Biol 0352 Genetics	3		
Biol 1137 Molecular Genetics	3		
Biol 1155 Statistical Methods in Biology	3		
Biol 1186 Immunology	3		
Biol 1224 Human Physiology	3		
and Biol 1225 Human Physiology Lab	1		
Biol 1130 Biology of Plants	3		
and Biol 1131 Biology of Plants Lab	1		
Biol 1236 Developmental Biology	3		
and Biol 1237 Developmental Biology Lab	1		
Biol 1240 Microbiology	3		
and Biol 1241 Microbiology Lab	1		
Requirement Satisfied	**3-4**		

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.

Reviewed 03/31/2026

MGPA (RQ 1969)

Major 50% (RQ 2856)