

Bachelor of Science in Biochemistry -- 120 Credits

JBIOCHM-BS (RG 4735)

Effective August 2019

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			
<i>Note - a student cannot test out of their QR requirement.</i>			
		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)

(RQ 3538)

Required Biology Courses		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	
Requirement Satisfied		8	

(RQ 3539)

Required Chemistry Courses		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	3	
Requirement Satisfied		34	

(RQ 3540)

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

(RQL 1968-10, 20, 30)

Biology Electives - Cellular Focus		CR	Satisfied/Term
Required			
Biol 0360	Cell Biology	3	
and Biol 0361	Cell Biology Lab	1	
Select Biol 1125/1225 or Biol 1130/1230			
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	
Select one additional Biology Elective below			
Biol 1236	Developmental Biology	3	
Biol 1240	Microbiology	3	
Biol 1186	Immunology	3	
Requirement Satisfied		11	

(RQ 3541)

Required Physics Courses		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	

(RQL 1968-40, 50)

Biology Electives - Genetics Focus		CR	Satisfied/Term
Required			
Biol 0352	Genetics	3	
Biol 1137	Molecular Genetics	3	
Select Biol 1125/1225 or Biol 1130/1230			
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	
Requirement Satisfied		10	

MGPA (RQ 1969)
Major 50% (RQ 2856)

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.

Updated 10/05/21