

Bachelor of Science in Chemistry -- 120 Credits

JCHEM-BS (RG 287)
Effective August 2016

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	

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

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

Science & Nature (RQ 3153)				
Subject	Number	Course Title	CR	Satisfied/Term
Phys	0150	Physics 1	4	
Math	0231	Analytic Geom & Calc 2	4	

Follow-Up Courses (RQ 3154)				
Subject	Number	Course Title	CR	Satisfied/Term
Phys	0152	Physics 2	4	
Math	0241	Analytic Geom & Calc 3	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 287)

(RQ 3542)

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 1327	Instrumental Analysis	4		
Chem 1341	Physical Chemistry 1	3		
Chem 1342	Physical Chemistry 2	3		
Chem 1343	Physical Chemistry Lab	2		
Requirement Satisfied			35	

(RQ 3543)

Required Math Courses			CR	Satisfied/Term
Math 0221	Analytic Geom & Calc 1	4		
Math 0231	Analytic Geom & Calc 2	4		
Math 0241	Analytic Geom & Calc 3	4		
Requirement Satisfied			12	

(RQ 3544)

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	

(RQ 851)

Chemistry Electives			CR	Satisfied/Term
Select 12 credits from the following				
Chem 1133	Synthesis & Characterization	1		
Chem 1321	Biochemistry 1	3		
Chem 1322	Biochemistry 2	3		
Chem 1323	Biochemistry Lab	1		
Chem 1331	Polymer Chemistry	3		
Chem 1332	Medicinal Chemistry	3		
Chem 1351	Green Chem & Sustainability	3		
Chem 1360#	Independent Study	4		
Chem 1371#	Undergraduate Research	4		
Requirement Satisfied			12	

NOTE: # Only 4 credits of Independent Study and/or Undergraduate Research may be used as Chemistry Electives

MGPA (RQ 0852)
Major 50% (RQ 2876)

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 10/06/21