

Bachelor of Science in Chemical Engineering -- 131 Credits

JCHE-BSE (RG 7272)
Effective August 2021

Worlds of Knowledge (RQ 3788)

Aesthetic and Creative Expression				
Subject	Number	Course Title	CR	Satisfied/Term
			3	

Global History & Culture				
Subject	Number	Course Title	CR	Satisfied/Term
			3	

Societies & Civics				
Subject	Number	Course Title	CR	Satisfied/Term
			3	

Each student must take 1 course in each of the following Worlds of Knowledge.

Each student must take two additional "Follow-Up" courses from any of the following Worlds of Knowledge.

The minimum number of courses taken in the Worlds must be 5.
(No electives may be taken from the World of Science & Nature)

Follow-Up Courses				
Subject	Number	Course Title	CR	Satisfied/Term

Freshman Year Curriculum (RG 7272)

Freshman Year Curriculum - 1st Term (RQ 3415)				
Complete the following Courses				
	CR	Satisfied/Term		
Chem 0150 General Chemistry 1 Engr	3			
EngCmp 0005 Composition 1	3			
Engr 0017 Intro Engr Analysis	3			
Engr 0081 Freshman Engr Sem 1	0			
Math 0221 Analytic Geom & Calc 1	4			
Phys 0150 Physics 1	4			
Requirement Satisfied	17			

Freshman Year Curriculum - 2nd Term (RQ 3416)				
Complete the following Courses				
	CR	Satisfied/Term		
Chem 0151 General Chem 2 for Engr	3			
Engr 0018 Intro Engr Computing	3			
Engr 0082 Freshman Engr Sem 2	0			
Math 0231 Analytic Geom & Calc 2	4			
Phys 0152 Physics 2	4			
Requirement Satisfied	14			

Sophomore Year Curriculum (RG 7272)

Soph Year Curriculum - 3rd Term (RQ 3417)				
Complete the following Courses				
	CR	Satisfied/Term		
CHE 0103 Chem Engr Foundations 1	3			
CHE 0104 Chem Engr Foundations Lab	1			
CHE 0220 Chem Engr Thermodyn 1	3			
CHE 1085 Dept Seminar	0			
Chem 0236 Organic Chemistry 1 Eng	3			
Math 0241 Analytic Geom & Calc 3	4			
Requirement Satisfied	14			

Soph Year Curriculum - 4th Term (RQ 3418)				
Complete the following Courses				
	CR	Satisfied/Term		
CHE 0105 Chem Engr Foundations 2	3			
CHE 0214 Intro Chem Product Design	3			
CHE 0221 Chem Engr Thermodyn 2	3			
CHE 0222 Chem Engr Thermodyn Lab	1			
CHE 1085 Dept Seminar	0			
Chem 0237 Organic Chemistry 2 Eng	3			
Chem 0238 Organic Chem Lab Eng	1			
Math 1271 Differential Equations	3			
Requirement Satisfied	17			

Junior Year Curriculum (RG 7272)

Junior Year Curriculum - 5th Term (RQ 3419)				
Complete the following Courses				
	CR	Satisfied/Term		
CHE 0302 Transport Phenomena 1	3			
CHE 0315 Product Design 2	3			
CHE 0402 Reactive Processes 1	3			
CHE 0404 Reactive Processes Lab	1			
CHE 1085 Dept Seminar	0			
Chem 1341 Physical Chemistry 1	3			
Engr 0020 Prob & Stats for Engr 1	4			
Requirement Satisfied	17			

Junior Year Curriculum - 6th Term (RQ 3420)				
Complete the following Courses				
	CR	Satisfied/Term		
CHE 0303 Transport Phenomena 2	3			
CHE 0304 Transport Phenomena Lab	1			
CHE 0405 Reactive Processes 2	2			
CHE 1085 Dept Seminar	0			
Commrc 0052 Public Speaking	3			
Requirement Satisfied	9			

Senior Year Curriculum (RG 7272)

Senior Year Curriculum - 7th Term (RQ 3421)				
Complete the following Courses				
	CR	Satisfied/Term		
CHE 0503 Syst Engr 1: Dyn & Modeling	5			
CHE 0504 Syst Engr 1: Lab	1			
CHE 1085 Dept Seminar	0			
CHE 1114 Systems Process Design 1	2			
Chem 1321 Biochemistry 1	3			
Requirement Satisfied	11			

Senior Year Curriculum - 8th Term (RQ 3422)				
Complete the following Courses				
	CR	Satisfied/Term		
CHE 0603 Chem Safety and Ethics	2			
CHE 1115 System Process Design 2	2			
CHE 1085 Dept Seminar	0			
Requirement Satisfied	4			

Electives (RQ 7272)

Engineering Electives (RQ 3779)				
Complete one of the following Courses				
	CR	Satisfied/Term		
CE 1105 Materials of Construction	3			
CE 1503 Intro to Environmental Eng	3			
CE 1610 Eng & Sustainable Develop	3			
CHE 1096 Special Projects	3			
EE 0031 Linear Circuits & Systems 1	3			
EE 0445 Prog & Intro to Data Struct	3			
Engr 0022 Materials	3			
Engr 0132 Statics	3			
Engr 1103 Engineering Economics	3			
Engr 1115 Engineering Leadership	3			
ME 0024 Intro ME Design	3			
Requirement Satisfied	3			

Advance Chemical/Petroleum Elective (RQ 3780)				
Complete one of the following Courses				
	CR	Satisfied/Term		
CHE 0510 Intro CmpII Fluid Dynamics	3			
CHE 0515 Catalysis	3			
Requirement Satisfied	3			

Advanced Science Elective / Lab (RQ 3782)				
Complete one of the following Courses				
	CR	Satisfied/Term		
Any Chem or Physics Course	3			
Any Chem or Physics Lab	1			
Requirement Satisfied	4			

Professional Electives (RQ 3781)				
Complete one of the following Courses				
	CR	Satisfied/Term		
Commrc 0083 Intercultural Communications	3			
Engwrt 0053 Intro to Professional Writing	3			
Engwrt 1192 Technical Writing	3			
Math 1181 Linear Algebra	3			
Additional Engineering Elective	3			
Additional Advanced Science Elective	3			
Engineering Co-Op (with approval)	3			
Requirement Satisfied	3			

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.

Revised 9/27/21