

Requirements Sign-Off Sheet for B.S. in Chemical and Biomolecular Engineering

Students Entering Program Fall 2021, General Checklist (no track)

Overall GPA: _____

Basic Science

Course	Crs	Sem
030.101 Intro Chem I (3)		
030.102 Intro Chem II (3)		
030.105 Intro Chem Lab I (1)		
030.106 Intro Chem Lab II (1)		
171.101 General Physics I (4)		
171.102 General Physics II (4)		
173.111 General Physics Lab I (1)		
Total	0	/17

Mathematics

Course	Crs	Sem	Grade
110.108 Calculus I (4)			
110.109 Calculus II (4)			
110.202 Calculus III (4)			
110.302 ⁵ Diff Eqs With Applic. (4)			
553.291 ⁵ Linear Algebra & Diff. Eq. (4)			
Total	0	/16 (min)	

Chemical Engineering Core

Course	Crs	Sem	Grade	GPA calc
540.101 Chemical Engineering Today (1)				
500.113 Gateway Computing Python (3)				#N/A
540.202 Chem & Biol Process Anal. (4)				#N/A
540.203 Engineering Thermo (3)				#N/A
540.301 Kinetic Processes (4)				#N/A
540.303 Transport I (3)				#N/A
540.304 Transport II (4)				#N/A
540.306 Mass Transfer/Separations (4)				#N/A
540.309 ⁴ ChemBE Product Design Part 1 (3)				#N/A
540.311 ³ Projects in Chem Eng Unit Ops (4)				#N/A
540.313 ³ Projects in ChemBE Unit Ops (4)				#N/A
>C-? 540.314 ⁴ ChemBE Product Design (3)				#N/A
>C-? 500.308 ⁴ Multidisciplinary Engineering Design (3)				#N/A
540.315 Process Design with Aspen (2)				#N/A
540.409 Modeling, Dynamics & Control (4)				#N/A
540.490 Intro to Chemical Process Safety (1)				#N/A
Total	0	/40		

ChemBE core course GPA #N/A

Advanced Chemistry/Biology

Course	Crs	Sem
030.205 Organic Chem I (4)		
020.305 Biochemistry (3)		
020.306 ¹ Cell Biology (4)		
540.307 ¹ Cell Biology for Engineers (3)		
¹ Adv. Chem Bio Elective (3)		
030.225 ² Intro Organic Chem Lab (3)		
030.305 ² Phys Chem Instrum Lab I (3)		
020.315 ² Biochemistry Project Lab (1)		
250.253 ² Protein Eng Biochem Lab (3)		
Total	0	/13 (min)

Engineering Elective Courses

Course	Crs	Sem
540.310 ⁴ ChemBE Product Design Part 2 (3)		
500.309 ⁴ Advanced Multidisciplinary Design (3)		

<i>Elective 1</i>		
<i>Elective 2</i>		
<i>Elective 3</i>		
Total	0	/8
Total Engineering Credits =	0	/48 (min)

Humanities and Social Sciences (6 3-cr courses minimum)

Course	Crs	Sem	Designator (H,S,etc.)
661.315 Culture of Eng. Profession (3)			SW

Total	0	/18 (min)	

Undesignated Electives

Course	Crs	Sem

Total	0	/15 (can be <15)
Total Credits	0	/128 (min)

Advanced H/S Course:

Writing Intensive Course:

Date: _____

Student Signature: _____

Date: _____

Student's Name (printed): _____

Advisor Signature: _____

Advisor's Name (printed): _____

At the conclusion of every advising meeting, email the form (signed and dated) to UGCoordinatorChemBE@jhu.edu.

Notes:

- Students must complete at least one of these courses
- Students must complete at least one of these courses
- Students must complete only one of these courses
- Students must complete either the one-semester course (540.314), the
- Students must complete only one of these courses