

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

Students Entering Program Fall 2021, Molecular and Cellular Bioengineering Track Checklist

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

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
540.313	³ Projects in ChemBE Unit Ops (4)				#N/A
540.314	⁴ ChemBE Product Design (3)				#N/A
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		

Mathematics

Course		Crs	Sem	Grade
110.108	Calculus I (4)			>C-?
110.109	Calculus II (4)			>C-?
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)	

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)		
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)		
Total		0	/8
Total Engineering Credits =		0	/48 (min)

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

Course		Crs	Sem	(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)

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:

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| <ol style="list-style-type: none"> Students must complete at least one of those courses Students must complete at least one of those courses Students must complete 540.313 | <ol style="list-style-type: none"> Students must complete either the one-semester course (540.314), the Students must complete only one of these courses |
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