

**Requirements Sign-Off Sheet for B.S. in Chemical and Biomolecular Engineering**  
**Students Entering Program Fall 2020, 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)		
<i>Total</i>	<i>0</i>	<i>/17</i>

**Mathematics**

Course	Crs	Sem	Grade
110.108 Calculus I (4)			>C-?
110.109 Calculus II (4)			>C-?
110.202 Calculus III (4)			
110.302 Diff Eqs With Applic. (4)			
<i>Total</i>	<i>0</i>	<i>/16</i>	<i>(min)</i>

**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 <sup>4</sup> ChemBE Product Design Part 1 (3)				#N/A
540.313 <sup>3</sup> Projects in ChemBE Unit Ops (4)				#N/A
540.314 <sup>4</sup> ChemBE Product Design (3)				#N/A
500.308 <sup>4</sup> 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
<i>Total</i>	<i>0</i>	<i>/40</i>		

**ChemBE core course GPA** #N/A

**Advanced Chemistry/Biology**

Course	Crs	Sem
030.205 Organic Chem I (4)		
020.305 Biochemistry (4)		
020.306 <sup>1</sup> Cell Biology (4)		
540.307 <sup>1</sup> Cell Biology for Engineers (3)		
020.315 <sup>2</sup> Biochemistry Project Lab (1)		
250.253 <sup>2</sup> Protein Eng Biochem Lab (3)		
<i>Total</i>	<i>0</i>	<i>/14</i> (min)

**Engineering Elective Courses**

Course	Crs	Sem
540.310 <sup>4</sup> ChemBE Product Design Part 2 (3)		
_____		
_____		
_____		
_____		
<i>Total</i>	<i>0</i>	<i>/8</i>

*Bioeng Elective 1*  
*Bioeng Elective 2*  
*Elective 3*

**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
_____			
_____			
_____			
_____			
_____			
<i>Total</i>	<i>0</i>	<i>/18</i> (min)	

**Undesignated Electives**

Course	Crs	Sem
_____		
_____		
_____		
_____		
_____		
_____		
<i>Total</i>	<i>0</i>	<i>/15</i> (can be <15)

**Total Credits** **0 /128 (min)**

Advanced H/S Course: \_\_\_\_\_

Writing Intensive Course: \_\_\_\_\_

Date: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Student's Name (printed): \_\_\_\_\_

Date: \_\_\_\_\_

Advisor Signature: \_\_\_\_\_

Advisor's Name (printed): \_\_\_\_\_

**At the conclusion of every advising meeting, return the form (signed and dated) to the mailbox of the UG Academic Coordinator in**

**Notes:**

1. Students must complete at least one of those courses
2. Students must complete at least one of those courses
3. Students must complete 540.313
4. Students must complete either the a one-semester course (540.314 or 500.309) or the yearlong option (540.309-310)