

Student Name _____
 Advisor _____

V# _____

total credits = 135

University of Idaho
Department of Chemical & Biological Engineering
Fall 2022 --- 2026
Biological Engineering Curriculum

Freshman

Fall 2022		Cr	Gr	Sem
^[2] Chem 111	Principles of Chemistry	3		
Chem 111 Lab	Principles of Chemistry Lab	1		
Engr 123	First Year Engineering	2		
Engl 102	Coll. Writing & Rhetoric	3		
** Elective	American Diversity/H or SS	3		
^[2] Math 170	Analyt. Geom & Calculus I	4		
TOTAL		16		

Spring 2023		Cr	Gr	Sem
BE 142	Intro to Biological Engineering	2		
Biol 115	Cells & Evolution of Life	3		
Biol 115 Lab	Cells & Evolution of Life	1		
Chem 112	Principles of Chemistry II	3		
Chem 112 Lab	Principles of Chem II Lab	2		
Math 175	Analyt. Geom & Calculus II	4		
** Elective	International/H or SS	3		
TOTAL		18		

Sophomore

Fall 2023		Cr	Gr	Sem
^{[2][3]} BE 242	Engr. Analysis & Design	3		
^[3] Biol 250	General MicroBiology	3		
Biol 255	General MicroBiology Lab	2		
^[2] Phys 211	Engr Physics I	3		
^[2] Phys 211 Lab	Engr Physics I Lab	1		
^[2] Math 275	Analyt. Geom & Calc III	3		
TOTAL		15		

Spring 2024		Cr	Gr	Sem
Chem 277	Organic Chemistry	3		
Chem 278	Organic Chemistry Lab	1		
Engr 210	Engineering Statics	3		
Engr 240	Intro to Electrical Circuits	3		
Math 310	Ord Diff Equations	3		
Phys 212	Engr Physics II	3		
TOTAL		16		

Junior

Fall 2024		Cr	Gr	Sem
^[3] Biol 380	Biochemistry	4		
Elective	Biological Engineering	3		
Engr 350	Mechanics of Materials	3		
Engr 335	Fluid Mechanics	3		
^[3] Engr 360	Engineering Econ	2		
Stat 301	Prob & Statistics	3		
TOTAL		18		

Spring 2025		Cr	Gr	Sem
BE 361	Biotransport Processes	3		
BE 462	Electric Power & Controls	3		
** Elective	Humanities or Social Science	3		
Elective	Communications/see catalog	3		
Elective	Technical Elective	3		
^[4] Engr 320	Thermo & Heat Transfer	3		
TOTAL		18		

Senior

Fall 2025		Cr	Gr	Sem
^[3] BE 441	Instrument. & Measurement	3		
^[3] BE 478	Engineering Design I	3		
^[3] BE 491	Senior Seminar	1		
** Elective	Humanities or Social Science	3		
^[6] Elective	Technical Elective	3		
^[6] Elective	Biological Engineering	3		
TOTAL		16		

Spring 2026		Cr	Gr	Sem
BE 461	Bioprocess Engineering	3		
BE 479	Engineering Design II	3		
** Elective	Humanities or Social Science	3		
** Elective	Humanities or Social Science	3		
Elective	Technical Elective	3		
Elective	Biological Engineering	3		
TOTAL		18		

Important notes:

- [1] This form is for guideline purposes only; the UI Catalog outlines the official requirements.
- [2] Classes must ALL be completed with a grade of "C" or better before registration is permitted in upper division engineering courses.
A "C" or better must also be earned in Math 170 before registration in Math 175 is allowed.
- [3] Fall semester only.
- [4] Spring semester only.
- [5] Accompanied laboratory (1 cr.) is not required.
- [6] Department approved technical elective courses: _____

Elective	Upper division BE	9
Elective	upper div. BE, CoEngr, or COS	9
	or dept. approved	_____
		18

**Humanities & Social Science courses must be 2 different disciplines. Note that some H/SS courses can also meet the American Diversity or International requirement. Careful choices of these courses could reduce the total courses to less than 6 classes as long as all general education requirements are met.

* See General Education Requirements
 Engineering credits must total 45 to meet ABET Accreditation.

