Student Name _____ *total credits =* 127-129

Advisor _____

University of Idaho

Department of Chemical and Biological Engineering - Biological Engineering Plan

Fall 2020 --- Spring 2024

Freshman

	Fall 2020		√		Spring 2021		√
[3] BE 142	Intro to Biological Engineering	2		Biol 115	Cells & Evolution of Life	3	
[2] Chem 111	Principles of Chemistry	3		Biol 115 Lab	Cells & Evolution of Life	1	
Chem 111 Lab	Principles of Chemistry Lab	1		Chem 112	Principles of Chemistry II	3	
Engl 102	Coll. Writing & Rhetoric	3		Chem 112 Lab	Principles of Chem II Lab	2	
Elective	Humanities/Social Science	3		Math 175	Analyt. Geom & Calculus II	4	
[2] Math 170	Analyt Geom & Calculus I	4		Elective	Humanities/Social Science	3	
TOTAL		***16***		TOTAL		***16***	

Sophomore

	Fall 2021		√		Spring 2022		√
[2][3] BE 242	Engr. Analysis & Design	3		Chem 277	Organic Chemistry	3	
[3] Biol 250	General MicroBiology	3		Chem 278	Organic Chemistry Lab	1	
Biol 255	General MicroBiology Lab	2		[2] Engr 210	Engineering Statics	3	
[2] Phys 211	Engr Physics I	3		Engr 240	Intro to Electrical Circuits	3	
[2] Phys 211 Lab	Engr Physics I Lab	1		Math 310	Ord Diff Equations	3	
[2] Math 275	Analyt. Geom & Calc III	3		[5] Phys 212	Engr Physics II	3	
TOTAL		***15***		TOTAL		***16***	

Junior

	Fall 2022		√		Spring 2023		√
[3] Biol 380	Biochemistry	4		[4] BE 462	Electric Power & Controls	3	
[3] Engr 320	Thermo & Heat Transfer	3		Engr 350	Mechanics of Materials	3	
Engr 335	Fluid Mechanics	3		Elective	Technical Elective	3	
STAT 301	Prob & Statistics	3		[6] Elective	Humanities/Social Science	3	
[3] Engr 360	Engineering Econ	2		[6] Elective	Biological Engineering	3	
[6] Elective	Technical Elective	3		[4] CE 105	Engineering Drafting	3	
				OR Geog 385	GIS Primer	3	
TOTAL		***18***		TOTAL		***18***	

Senior

	Fall 2023		√		Spring 2024		√
[3] BE 441	Instrument. & Measurement	3		[4] BE 461	Bioprocess Engineering	3	
[3] BE 478	Engineering Design I	3		[4] BE 479	Engineering Design II	3	
[3] BE 491	Senior Seminar	1		[6] Elective	Biological Engineering	3	
Elective	Humanities/Social Science	3		Elective	Humanities/Social Science	3	
[6] Elective	Technical Elective	3		[6] Elective	Technical Elective	3	
[6] Elective	Biological Engineering	3		* Elective	Communications/see catalog	2/3	
TOTAL		***16***		TOTAL		***17/18***	

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.

[3] Fall semester only.

[4] Spring semester only.

[5] Accompanied laboratory (1 cr.) is not required.

[6] Department approved technical elective courses:

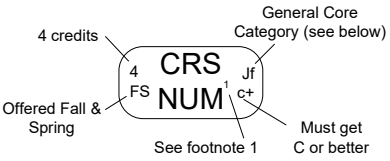
Elective	Upper division BE	9
Elective	upper div. BE, CoEngr, or COS	9
	or dept. approved	
		18

***** See General Education Requirements

Engineering credits must total 45 to meet ABET Accreditation.

Revised April 8 2020

2020-2024 Biological Engineering Course Sequence



Senior

3 S BE 479 Jf
3 S BE 461
9 Three Electives

3 F BE 441
3 F BE 478 Jf
1 F BE 491[4] Jf
9 Three Electives

Out of total 10 Electives, 2 Humanities, 2 Social Science, 3 Upper Division Engineering and 3 Upper Division Engineering or Science. H & SS classes (Core category Jd) **must be from 2 different disciplines each**.

Engineering ≥ 45 credits to meet ABET Accreditation. 39 credits of Engineering are listed (With ENGR105).

Junior

3 FS STAT 301
3 S BE 462
3 FS ENGR 350
2 F ENGR 360[3]
6 Two Electives

3 FS ENGR 320
3 FS ENGR 335
4 F BIOL 380
6 Two Electives

Some technical electives are offered only every other year and may have prerequisites. Work with your advisor to plan ahead for those courses.

Sophomore

3 FS ENGR 210
2 FS PHYS 212 Jb
3 FS ENGR 240
3 FS MATH 310
3/1 FS CHEM 277/8

3 F BE 242
3/1 FS PHYS 211/L Jb
3 FS MATH 275 Jc
2 FS COMM 101 Ja
3/2 F BIOL 250/5 Jb

Freshman

4 FS MATH 175 Jc

2 FS ENGR 105
3 FS GEOG 385
One of these two. GEOG 385 doesn't count as ENGR. You need ≥45 ENGR Credits to graduate.

3/1 FS BIOL 115/L Jb
4/1 FS CHEM 112/L Jb

CHEM 101 → ⊕

ENTER

4 FS MATH 170 Jc C+
Math 143 (c+) & Concurrent Math 144, or see placement[0]

2 F BE 142

3 FS ENGL 102
Engl 101 or see placement[0]

3/1 FS CHEM 111/L Jb
c+ in {Chem 101 or Math 143 or 170} or see placement[0]

⊕ OR ● AND
Can be taken concurrently
Recommended (not required)

[0] See http://www.uidaho.edu/registrar/registration/placement
[1] Open to first year students only
[2] Must have Sophomore status to enroll
[3] Must have Junior status to enroll
[4] Must have Senior status to enroll

General Core Category (www.uidaho.edu/academic-advising for details)

Ja: Communication Core(5)	Jb: Science Core (8)	Jc: Math Core (3)
Jd: H & SS Core(12)	Je:Diversity/Int	Jf: Senior Exp. (6)

Total Core ≥ 36 credits, (Jd+Je+Jf) ≥ 18 Credits. Je Core may be satisfied by taking dual listed Jd courses and/or by study abroad.