

Student Name _____
 Advisor _____

total credits = 131/132

University of Idaho
Department of Chemical & Biological Engineering
Fall 2021 --- 2025
Biological Engineering Curriculum

Freshman

Fall 2021		Cr	Grade	Sem
^[3] BE 142	Intro to Biological Engineering	2		
^[2] Chem 111	Principles of Chemistry	3		
Chem 111 Lab	Principles of Chemistry Lab	1		
Engl 102	Coll. Writing & Rhetoric	3		
Elective	Humanities	3		
^[2] Math 170	Analyt Geom & Calculus I	4		
TOTAL		16		

Spring 2022		Cr	Grade	Sem
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		
^[2] Math 175	Analyt. Geom & Calculus II	4		
Elective	Social Science	3		
TOTAL		16		

Sophomore

Fall 2022		Cr	Grade	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 2023		Cr	Grade	Sem
Chem 277	Organic Chemistry	3		
Chem 278	Organic Chemistry Lab	1		
^[2] 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 2023		Cr	Grade	Sem
^[3] Biol 380	Biochemistry	4		
Engr 350	Mechanics of Materials	3		
Engr 335	Fluid Mechanics	3		
Stat 301	Prob & Statistics	3		
^[3] Engr 360	Engineering Econ	2		
CEE 105	Engineering Drafting			
OR Geog 385	GIS Primer	3		
TOTAL		18		

Spring 2024		Cr	Grade	Sem
^[4] BE 462	Electric Power & Controls	3		
Elective	American Diversity	3		
Elective	Communications/see catalog	2		
Elective	Technical Elective	3		
Elective	Biological Engineering	3		
Engr 320	Thermo & Heat Transfer	3		
TOTAL		17		

Senior

Fall 2024		Cr	Grade	Sem
^[3] BE 441	Instrument. & Measurement	3		
^[3] BE 478	Engineering Design I	3		
^[3] BE 491	Senior Seminar	1		
Elective	Humanities	3		
^[6] Elective	Technical Elective	3		
^[6] Elective	Biological Engineering	3		
TOTAL		16		

Spring 2025		Cr	Grade	Sem
^[4] BE 461	Bioprocess Engineering	3		
^[4] BE 479	Engineering Design II	3		
Elective	Social Science	3		
Elective	International	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.
- [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		

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

2021-25 Biological Engineering Course Sequence

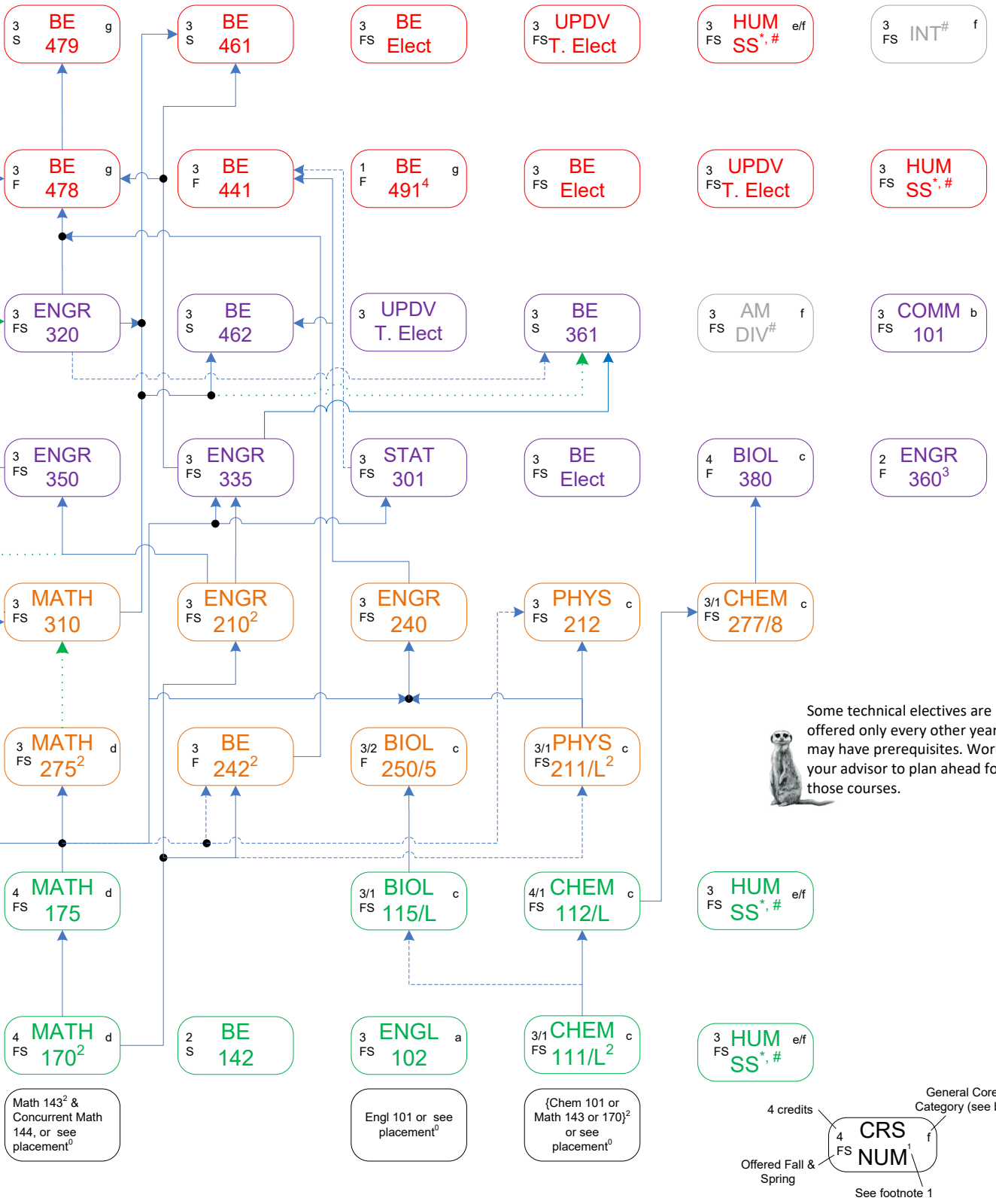


Senior

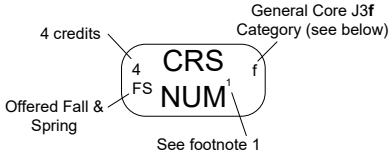
Junior

Sophomore

Freshman

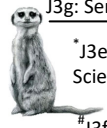


Some technical electives are offered only every other year and may have prerequisites. Work with your advisor to plan ahead for those courses.



⁰ See <http://www.uidaho.edu/registrar/registration/placement>
¹ Open to first year students only
² Must have grade of C or better
³ Must have Junior status to enroll
⁴ Must have Senior status to enroll

General Core (≥ 36 credits) (www.uidaho.edu/academics/general-education for details)
 J3a: Written Comm. (3-6) J3b: Oral Comm. (2-3) J3c: Science (8) J3d: Math (3)
 J3e: Hum/SS(12¹) J3f[#]: One course and Am. Diversity + One course in International
 J3g: Senior Experience(1 class)



[#]J3e: Select 6 Credits of Humanities **from 2 different disciplines** and 6 credits of Social Sciences also **from 2 different disciplines**.
[#]J3f Core may be satisfied by taking dual listed J3e (Humanities and Social Sciences) courses and/or by study abroad.

- Prerequisite
- - - Can be taken concurrently
- ... Recommended (not required)