

Student Name _____
 Advisor _____

V# _____

total credits = 132
 revised Feb 22, 2022

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

Freshman

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

Spring 2023		Cr	Grade	Sem
** ChE 123	Computations in ChE	2		
* Chem 112	Principles of Chemistry II	4		
* Chem 112 Lab	Principles of Chem II Lab	1		
Elective	International H/SS	3		
** Math 175	Analyt. Geom & Calculus II	4		
Phys 211	Engr Physics I	3		
Phys 211 Lab	Engr Physics I Lab	1		
TOTAL		18		

Sophomore

Fall 2023		Cr	Grade	Sem
** ChE 220	Prog. for Chem Engrs	3		
Chem 277	Organic Chemistry	3		
Chem 278	Organic Chemistry Lab	1		
* Engr 210	Engineering Statics	3		
* Math 275	Analyt. Geom & Calc III	3		
Phys 212	Engr Physics II	3		
TOTAL		16		

Spring 2024		Cr	Grade	Sem
* ChE 223	Mat'l & Energy Balances	3		
Chem 372	Organic Chemistry II	3		
Chem 374	Organic Chemistry II Lab	1		
* Engr 320	Thermo & Heat Transfer	3		
* Engr 335	Fluid Mechanics	3		
* Math 310	Ord Diff Equations	3		
TOTAL		16		

Junior

Fall 2024		Cr	Grade	Sem
ChE 326	ChE Thermodynamics	3		
ChE 340	Trans & Rate Processes I	4		
Chem 305	Physical Chemistry	3		
Chem 307	Physical Chemistry Lab	1		
Elective	Econ 201 or 202	3		
Engr 240	Intro to Electrical Circuits	3		
TOTAL		17		

Spring 2025		Cr	Grade	Sem
ChE 330	Separation Processes	3		
ChE 341	Trans & Rate Processes II	4		
ChE 423	Reactor Kinetics & Design	3		
Elective	Math-UPDV	3		
Elective	Oral Communication	3		
TOTAL		16		

Senior

Fall 2025		Cr	Grade	Sem
ChE 433	Chem Engr Lab I	1		
ChE 444	Process Analysis & Control	3		
ChE 453	Process Analysis & Des. I	3		
ChE 491	Seminar	1		
Elective	ChE/BE 390+	3		
Elective	UPDV Tech Elective	3		
Elective	Humanities	3		
TOTAL		17		

Spring 2026		Cr	Grade	Sem
ChE 434	Chem Engr Lab II	1		
ChE 454	Process Analysis & Des II	3		
Elective	Social Science	3		
Elective	Humanities	3		
Elective	UPDV CHE Elective	3		
Elective	UPDV Tech Elective	3		
TOTAL		16		

Other courses required (Junior Certification Courses)

Course	Cr	Grade	Sem	Grade	Sem	Course	Cr	Grade	Sem	Grade	Sem
Chem 111 + 111L	3 + 1					Engr 320	3				
Chem 112 + 112L	3 + 2					Engr 335	3				
Engr 210	3					ChE 223	3				
Math 275	3					Math 310	3				

General Catalog: Students majoring in chemical engineering must earn a grade of C or better in each of the following courses before enrolling in upper-division CHE courses: Chem 111, 111L, 112 and 112L; ChE 223; Engr 210, 320, and 335; Math 275 and 310.

**Passing ChE 123, Engr 102, ChE 220, Math 175 and Phys 211-212 are also REQUIRED for upper-division registration!

Math 170 requires a grade of C or better to go on to Math 175.

Specified credits: 92; Humanity-Social Sciences credits: 12; American Diversity: 3 credits, International: 3 credits; Communication Elective (from core): 3 credits; Other unspecified (ChE - 3; Math - 3; Technical - 6): 15 credits.

Humanities and Social Science electives (including Econ elective) must satisfy the university's general education core.

Technical electives and the ChE/MSE elective may NOT include 398, 498 or 598 Internship.

2022-26 Chemical Engineering Course Sequence

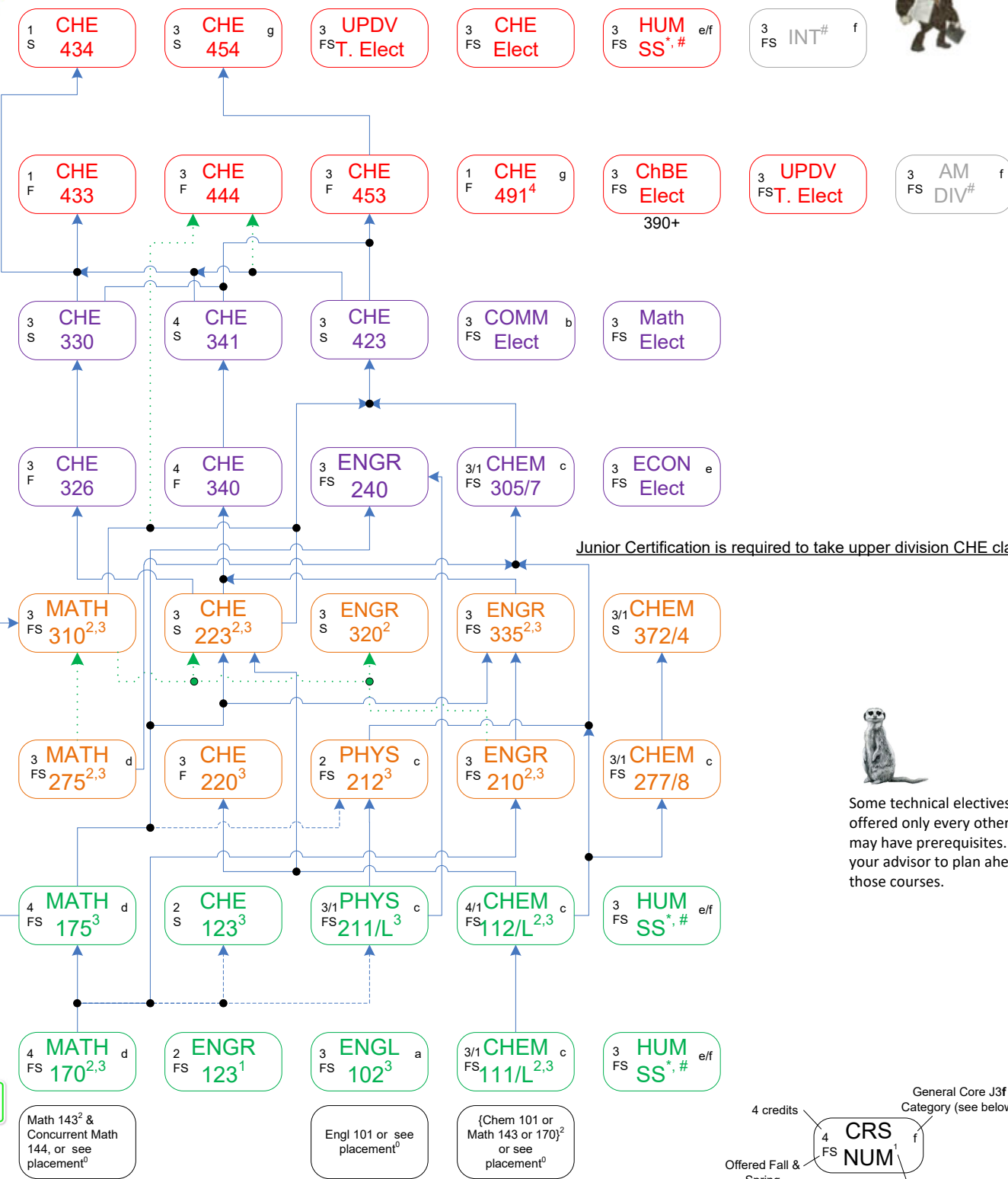


Senior

Junior

Sophomore

Freshman



Footnote:

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 pass for Junior Certification

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)