

Advising Sheet: B.S. in Chemical Engineering – Standard Option (For Graduating Class of 2022 and after)

Name: _____

ID: _____

Fall					Spring				
Freshman: [15]	Hrs	Grade	Sem	Prereq/Coreq	[17]	Hrs	Grade	Sem	Prereq/Coreq
Writ 101	(3)				Writ 102	(3)			
Math 261	(3)			Math ACT 24	Math 262	(3)			Math261 (Min C)
Chem 105	(3)			Math ACT 25, Chem115	Chem 106 ⚓	(3)			Chem105 (Min C), Chem116
Chem 115	(1)			Chem105	Chem 116 ⚓	(1)			Chem106 (Min C)
Ch E 101 ⚓	(2)				Ch E 251 ⚓	(3)			Math 261
SS/H/FA	(3)				Phys 211	(3)			Math262, Phys221
					Phys 221	(1)			Phys211
Sophomore: [15]					[18]				
Math 263	(3)			Math262 (Min C)	Math 264	(3)			Math263 (Min C)
Chem 221	(3)			Chem106 (Min C)	Math 353	(3)			Math264
Chem 225	(1)			Chem221	Phys 212	(3)			Phys211, Math262, Phys222
Engr 321	(3)			Chem 105, Math 262	Phys 222	(1)			Phys212
Ch E 307 ⚓	(2)			Chem106 (Min C)	Ch E 308 ⚓	(2)			Ch E 307 (Min C-), Math262 (Min C-)
SS/H/FA	(3)				Engr 322 ⚓	(3)			Math 262 (Min C-), ENGR 321
					SS/H/FA	(3)			
Junior: [16]					[15]				
Ch E 317 ⚓	(3)			ENGR 322 (Min C-)	Ch E 345 ⚓	(3)			Ch E 308 (Min C-)
Ch E 421 ⚓	(3)			Math 264 (Min C-), ENGR 321 (Min C-)	Ch E 417 ⚓	(3)			Ch E 308 (Min C-), Ch E 421 (Min C-)
ChE 431 ⚓	(1)			Ch E 308 (Min C-), Engr 322 (Min C-), Ch E 421	Ch E 423 ⚓	(3)			Math 353 (Min C-), Engr 322 (Min C-)
Engr 310	(3)			Math 262	Engr Elective**	(3)			
Advanced Science*	(3)				Tech Elective***	(3)			
SS/H/FA	(3)								
Senior: [17]					[15]				
Ch E 411 ⚓	(1)			Ch E 449	Ch E 433 ⚓	(2)			Ch E 317 (Min C-) AND Ch E 431 (Min C-) OR Ch E 432 (Min C-)
Ch E 412 ⚓	(3)			Ch E 308 (Min C-), Math 353 (Min C-)	Ch E 450 ⚓	(1)			Ch E 449 (Min C-)
Ch E 432 ⚓	(1)			Ch E 417 (Min C-), Ch E 423 (Min C-)	Ch E 452 ⚓	(3)			Ch E 449 (Min C-), Ch E 317 (Min C-)
Ch E 449 ⚓	(3)			Ch E 345 (Min C-), Ch E 421 (Min C-), Ch E 423 (Min C-), Ch E 417 (Min C-), Ch E 411	Engr 313	(3)			Chem 105
Tech Elective***	(3)				Tech Elective***	(3)			
SS/H/FA	(3)				Tech elective***	(3)			
SS/H/FA	(3)								

TOTAL = 128 HOURS

Must have at least 3 hrs of FA, 6 hrs of Hum from the same department, 6 hrs of serial SS from the same department, and an additional 3 hrs of SS or Hum. Speech and Math content courses such as Psy 202 and Econ 230 may not be used to satisfy any of the 18 credits of required SS/Hum/FA/GenEd coursework.

Fine Arts	Humanities	Social Sciences	Extra Social Science / Humanities

*Advanced Science Courses – Engr 340, Engr 540, Ch E 543, Ch E 545, Ch E 547, Geol 314, G E 415, G E 450, G E 503, Chem 314, Chem 331, Chem 332, Chem 334, Chem 373, Chem 401, Chem 471, Chem 473, Phys 315, Phys 317, Phys 318, Phys 319, Phys 321, Phys 401, Phys 402, Bisc 301, Bisc 306, Bisc 318, Bisc 320, Bisc 327, Bisc 333, Bisc 335

**Engineering Elective Courses – Engr 309, Engr 330, Engr 360, Engr 573, ChE520, ChE535, ChE540, ChE550, C E 471, C E 472, M E 534

***Technical Elective – Any 300 or higher course number from among engineering, science, or mathematics. Acceptable alternatives include: Chem 222; Bisc 160-163 series may count as one 3 hr technical elective; Manf 251, Manf 253, Manf 254, Manf 255

⚓ An anchor means a course is only taught in a designated Fall/Spring semester. However, the class may be taught in Summer session(s).

As an alternative to the standard option in chemical engineering, a student may choose to obtain a B.S. in Chemical Engineering with one or more of the following four emphases: biotechnology, environmental, materials, and manufacturing (in collaboration with the Center for Manufacturing Excellence – CME). Please see your advisor for more details.