

Chemical Engineering Flow Chart

2022 – 2023 Catalog Year

	Prerequisite Courses (if needed)			Required Courses				
	1 st Semester	2 nd Semester	3 rd Semester	4 th Semester	5 th Semester			
MATHEMATICS: MAT 051, 052, 053, 055, 056, 057 (1 credit each) Diagnostic Math Modules	MAT 121/122 (3-4) Intermediate Algebra	MAT 151/152 (3-4) College Algebra and	MAT 182 (3) Trigonometry OR MAT 187 (5) Pre-Calculus	MAT 220/221 (4-5) Calculus I	MAT 230/231 (4-5) Calculus II	MAT 240/241 (4-5) Calculus III OR MAT 276/277 (3-4) Modern Differential Equations	MAT 225 (3) Elementary Linear Algebra	
PHYSICS and Biology:		PHY 111 (4) General Physics I	PHY 112 (4) General Physics II OR 1 year high school physics*		PHY 121 (4) University Physics I: Mechanics	PHY 131 (4) University Physics II: Electricity & Magnetism	BIO 181: General Biology (Majors) I or BIO 181XT: General Biology (Majors) I or BIO 182: General Biology (Majors) II or BIO 201: Human Anatomy and Physiology I or BIO 205: Microbiology or BIO 220: Biology of Microorganisms 3-4 hrs.	
CHEMISTRY:			CHM 130 (3) & CHM 130LL (1) Fundamental Chemistry OR 1 year high school chemistry*	CHM 151 (3) & CHM 151LL (1) General Chemistry I and General Chemistry I Laboratory	CHM 152 (3) & CHM 152LL (1) General Chemistry II and General Chemistry II Laboratory	CHM 235 (4): General Organic Chemistry I and CHM 235LL: General Organic Chemistry I Laboratory	CHM 236 (3): General Organic Chemistry IIA	
ENGINEERING:				ECE 102 (2) Engineering Analysis Tools & Design	ECE 103 (2) Engineering Problem Solving & Design			
ENGLISH:			WAC 101 (3) Writing Across the Curriculum	ENG 101 (3) First Year Composition I	ENG 102 (3) First Year Composition II			
GENERAL EDUCATION:				Recommended Humanities course: ECE 150 (3) Exploring Engineering and its impact on Society.	SB with H or G or both (3) if not taken with HU. See Academic Advisor for more information. AND HU with H or G or both (3). See Academic Advisor for more information.	HU with L and C (3) See Academic Advisor for more information. DAH 255, ENH 255, or MHL 204 recommended.	SB chosen from COM 100 or COM 110 or COM 230 (3) Introduction to Human Communication or Interpersonal Communication or Small Group Communication	

* The Fulton School of Engineering requires that students must complete the MAPP with a 3.0 cumulative transfer GPA. **Be sure to check MAPP for requirements:

[Maricopa Pathway Agreement.](#)

Note: Students interested in completing the BSE Chemical Engineering degree in two additional years at ASU, **must complete CHE 211 and CHE 231 through concurrent enrollment or in the summer prior to admission.** Students are

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strongly encouraged to contact the SEMTE Advising Office at (480) 965-2335 to meet with an academic advisor upon enrollment into a MAPP at the community college.