

Civil 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	MAT151/152 (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 MAT 276/277 (3-4) Modern Differential Equations	MAT 225 (3) Elementary Linear Algebra	
PHYSICS:		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		
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		Additional Science (3-4) CHM 230 Fundamentals of Organic Chemistry OR GLG 101 Introduction to Geology I Physical Lecture OR BIO 181 General Biology Majors I OR BIO 182 General Biology Majors II. (BIO 181 or 182 for Civil and GLG 101 for Sustainable.)	
ENGINEERING:				ECE 102 (2) Engineering Analysis Tools & Design	ECE 103 (2) Engineering Problem Solving & Design	ECE 211 (3) Engineering Mechanics-Statics	ECE 212 (3) Engineering Mechanics-Dynamics ECE 215 (3) Mechanics of Materials	
ENGLISH:			WAC 101 (3) Writing Across the Curriculum	ENG 101 (3) First Year Composition I	ENG 102 (3) First Year Composition II			
GENERAL EDUCATION:				SB chosen from COM 100 or COM 110 or COM 230 (3) Introduction to Human Communication or Interpersonal Communication or Small Group Communication	HU with H or G or both (3) See Academic Advisor for more information	Recommended Humanities course: ECE 150 (3) Exploring Engineering and its impact on Society.	HU with L and C (3) See Academic Advisor for more information. DAH 255, ENH 255, or MHL 204 recommended. AND ECN 211 or 212 (3) Macroeconomic Principles (SB) or Microeconomic Principles (SB)	

A 3.0 transfer GPA as calculated by ASU for admissions is required. All courses must be completed with a grade of "C" or better. **Be sure to check MAPP for requirements.

Link to BSE Civil Engineering: [Pathway Agreement \(asu.edu\)](https://www.asu.edu/pathway-agreement). Link to BSE Civil Engineering (Sustainable Engineering): [Pathway Agreement \(asu.edu\)](https://www.asu.edu/pathway-agreement)