

# Construction Engineering Flow Chart 2022 – 2023 Catalog Year

				Required Courses				
Prerequisite Courses (if needed)				1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	5 <sup>th</sup> Semester
<b>MATHEMATICS:</b> 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 <b>OR</b> 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 <b>MAT 276/277 (3-4)</b> Modern Differential Equations	MAT 225 (3) Elementary Linear Algebra	
<b>PHYSICS:</b>		PHY 111 (4) General Physics I	PHY 112 (4) General Physics II <b>OR</b> 1 year high school physics*		PHY 121 (4) University Physics I: Mechanics	PHY 131 (4) University Physics II: Electricity & Magnetism		
<b>CHEMISTRY:</b>			CHM 130 (3) & CHM 130LL (1) Fundamental Chemistry <b>OR</b> 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		GLG 101: Introduction to Geology I - Physical Lecture or BIO 181: General Biology (Majors) I or BIO 182: General Biology (Majors) II	
<b>ENGINEERING:</b>				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 <b>ECE 215 (3)</b> Mechanics of Materials	EEE 202 (5) Circuit Devices
<b>ENGLISH:</b>			WAC 101 (3) Writing Across the Curriculum	ENG 101 (3) First Year Composition I	ENG 102 (3) First Year Composition II			
<b>GENERAL EDUCATION:</b>				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: <b>ECE 150 (3)</b> 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. <b>AND</b> <b>ECN 211 or 212 (3)</b> 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**: <https://webapp4.asu.edu/transferpathwaybuilder/public?year=2021&extOrgId=MARICOPA&acadPlan=ESCONBSE>

Link to BSE in **Construction Management and Technology**: <https://webapp4.asu.edu/transferpathwaybuilder/public?year=2021&extOrgId=MARICOPA&acadPlan=ESCONMGTS>