## Biomedical Engineering Flow Chart 2022 – 2023 Catalog Year





				Required Courses				
	Prerequi	site Courses	<i>(if needed)</i>	1 <sup>st</sup> Semester	2 <sup>nd</sup> Semester	3 <sup>rd</sup> Semester	4 <sup>th</sup> Semester	
MAT 051, 052, 053, 055, 056, 057 (1 credit	<pre>//AT 121/122 - a-4) Inter- nediate ligebra</pre>	• MAT151/152- (3-4) College Algebra PHY 111 (4) -▶	Trigonometry OR MAT 187 (5) Pre-Calculus	MAT 220/221 (4-5) Calculus I	MAT 230/231 (4-5) Calculus II PHY 121 (4) University	MAT 240/241 (4-5) Calculus III PHY 131 (4) University	MAT 276/277 (3-4) Modern Differential Equations	
		General Physics I	General Physics II OR 1 year high school physics*		Physics I: Mechanics	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			
BIOLOGY:			Eligibility for CRE 101 or RDG 100 with a grade of "C" or better		BIO 181 (4) General Biology (Majors)	BIO 201 (4) Human Anatomy and Physiology I ***May be taken at CGCC or at ASU.	BIO 202 (4) Human Anatomy and Physiology II ***May be taken at CGCC or at ASU.	
ENGINEERING:				ECE 102 (2)Engineering – Analysis Tools & Design ECE 105 (1) MATLAB Programming <u>AND</u> CSC 110 or 110 AA or 110 AB (3-4) Introduction to Computer Science (Java)	ECE 103 (2) Engineering Problem Solving & Design		EEE 202 (5) Circuits and Devices I	
ENGLISH:			WAC 101 (3) Writ- — ing Across Curriculum	ENG 101 (3) First Year — Composition I	ENG 102 (3) First Year Composition II			
GENERAL EDUCATION:				HU with H AND G (3) See Academic Advisor for more information.	Recommended Humanities course: ECE 150 (3) Exploring Engineering and its impact on Society.	SB chosen from COM 100 or COM 110 or COM 230 (3) Introduction to Human Communication or Interpersonal Communication or Small Group Communication	ECN 211 or 212 (3) Macroeconomic Principles (SB) or Microeconomic Principles (SB) <u>AND</u> HU with L and C (3) DAH 255, ENH 255, or MHL 204 recommended.	

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 MAPP: <u>Pathway Agreement (asu.edu)</u> 3.0 transfer GPA as calculated by ASU for admissions.