Aerospace Engineering Flow Chart
2022 – 2023 Catalog Year

CHANDLER-GILBERT COMMUNITY COLLEGE — A MARICOPA COMMUNITY COLLEGE · STEM

	Prerequisite Courses (if needed)			Required Courses				
				1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester
MATHEMATICS: MAT 051, 052, 053, 055, 056, 057 (1 credit each) Diagnostic Math Modules	MAT 121/122 (3-4) Inter-mediate 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			
ENGINEERING:				ECE 102 (2) Engineering Analysis Tools & Design / ECE 105 (1) MATLAB Programming *OR* CSC 110 (3) Introduction to Computer Science *OR* Both if pursuing Computational Mechanics.**	ECE 103 (2) Engineering Problem Solving & Design	ECE 211 (3) Engineering Mechanics-Statics / ECE 216 (2) and ECE 216LL (1) Computer Aided Engineering and Computer Aided Engineering Lab	ECE 212 (3) Engineering Mechanics-Dynamics / ECE 215 (3) Mechanics of Materials / EEE 202 (5) Circuits and Devices I ***May be taken at CGCC or at ASU. It is highly recommended to complete EEE 202 before transfer to ASU.	
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	

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* 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. BSE Mechanical Engineering (Computational Mechanics) requires both ECE 105 and CSC 110.

Link to BSE Aerospace Engineering (Aeronautics): Pathway Agreement (asu.edu)

Link to BSE Aerospace Engineering (Astronautics): Pathway Agreement (asu.edu)

Link to BSE Aerospace Engineering (Autonomous Vehicle Systems): Pathway Agreement (asu.edu)

ECE 105: MATLAB Programming OR CSC 110: Introduction to Computer Science (Java) or CSC 110AA: Introduction to Computer Science (Java) or CSC 110AB: Introduction to Computer Science (Java)	1-4 hrs