

Mechanical Systems Engineering Flow Chart

2022 – 2023 Catalog Year

| | | | | Required Courses | | | | |
|---|--|---------------------------------------|--|--|--|---|--|--------------------------|
| Prerequisite Courses (if needed) | | | | 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 | MAT 276/277 (3-4) Modern Differential Equations | |
| 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 103 (2) Engineering Problem Solving & Design | ECE 211 (3) Engineering Mechanics-Statics | EEE 202 (5) Circuits and Devices I ECE 280 (3) Foundational Statistics for Engineers <i>Transfer to ASU-Poly as EGR 280 (3)</i> | |
| 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.

Link to BSE Engineering (Mechanical Systems) Pathway Agreement:

<https://webapp4.asu.edu/transferpathwaybuilder/public?year=2021&extOrgId=MARICOPA&acadPlan=TSEGRMEBSE>

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