Manufacturing Systems Engineering

Freshman Year (30 Credit Hours)
- CH 101 General Chemistry I Lab Included
- MATH 125 Calculus I
- PH 105 General Physics with Calculus I Lab Included
- MATH 126 Calculus II
- MATH 227 Calculus III
- MATH 238 Differential Equations I
- ENGR 103 Engineering Foundations
- EN 101 English Composition I
- EN 102 English Composition II

Sophomore Year (63 Credit Hours)
- ME 121 or MFE 190 Intro to Mechanical Engineering or Intro to Manufacturing Systems Engineering
- ME 215 Thermodynamics I
- ENGR 161 Small-Scale Engineering Graphics
- AEM 201 Statics
- AEM 200-level Elective
- AEM 250 Mechanics of Materials I
- AEM 251 Mechanics of Materials Lab
- MFE 200-level Elective
- ME 215 Thermodynamics I

Junior Year (94 Credit Hours)
- MFE 390 Engineering Design I Lab Included
- MFE 342 Fundamentals of Materials Processing
- MFE 344 Advanced Materials Science & Additive Processes
- MFE 485 Modern Manufacturing Practices II
- MFE 490 Engineering Design II Lab Included
- ENGR 161 Small-Scale Engineering Graphics
- AEM 200-level Elective
- MFE 200/300-level Elective
- MFE 200-level Elective
- ME 215 Thermodynamics I

Senior Year (125 Credit Hours)
- MFE 483 Computer Aided Manufacturing
- MFE 473 Discrete Simulation of Manufacturing Systems
- ENGR 161 Small-Scale Engineering Graphics
- AEM 200-level Elective
- MFE 200/300-level Elective
- MFE 200-level Elective
- ENGR 161 Small-Scale Engineering Graphics

Notes:
1. MFE 190 or ME 121 are the preferred introductory course options for ME Department majors but the requirement may also be completed with ENGR 111 or any other introductory engineering course in other UA engineering majors.
2. The CH 101 requirement may also be satisfied by CH 100 (5 hour) for students whose math sequence begins below MATH 125.
3. The following courses have honors equivalencies: CH 101, PH 105, PH 106, MATH 125, MATH 126, MATH 227, ENGR 103, and EN 101/102.