

BS IN MECHANICAL ENGINEERING DEGREE REQUIREMENTS

General Education Requirements

English

- ENGL 1157 - English Composition 1 - **Credits: 3**
- ENGL 1158 - English Composition 2 - **Credits: 3**
OR
- ENGL 1159 - English Composition 2 Honors - **Credits: 3**¹

Mathematics

- MATH 2114 - Calculus I - **Credits: 4**³
- MATH 2124 - Calculus II - **Credits: 4**³

Science

- BIOS **Credits: 3**
- PHYS 1061 - Physics Sci Engr I - **Credits: 3**
- PHYS 1062 - Physics Sci Engr II - **Credits: 3**

Humanities

- ENGL 2152 - Technical Writing - **Credits: 3**
- ENGL Literature **Credits: 3**
- Humanities Elective **Credits: 3**²

Social Sciences

- ECON 1203 - Principles of Microeconomics - **Credits: 3**
OR
- ECON 1330 - Financial Literacy - **Credits: 3**
- Social Science Elective (ANTH, ECON, GEOG, POLI, PSYC, SOC, URBN) **Credits: 3**

Arts

- (Fine Arts, Music, FTA except FTA 2650, 2660) **Credits: 3**

Total Credit Hours: 39

Other Requirements

- CHEM 1017 - General Chemistry I - **Credits: 3**
- CSCI 1205 - Intro to Programming in C++ - **Credits: 3**
- ENCE 2311 - Mechanics of Materials Lab - **Credits: 1**
- ENCE 2350 - Statics - **Credits: 3**
- ENCE 2351 - Mechanics of Materials - **Credits: 3**
- ENEE 2550 - Circuits I - **Credits: 3**
- ENEE 3501 - Basic Electrical Machinery - **Credits: 3**
- ENEE 3518 - Electrical Engr Laboratory - **Credits: 1**
- ENME 1781 - Computer Aided Engr Graphics - **Credits: 3**
- ENME 2711 - Mater & Process Lab - **Credits: 1**
- ENME 2740 - Structs & Prop of Materials - **Credits: 3**
- ENME 2750 - Dynamics - **Credits: 3**

- ENME 2785 - Intro Manufacturing - **Credits: 3**
- MATH 2221 - Elem Differential Equations - **Credits: 3**
- MATH 2134 - Calculus III - **Credits: 4**
- PHIL 2244 - Engineering Ethics - **Credits: 1**
- PHYS 1063 - Physics Lab for Science & Engr - **Credits: 1**
- PHYS 1065 - Physics Lab for Science & Engr - **Credits: 1**
- ENME 2770 - Engineering Thermodynamics - **Credits: 3**

Total Credit Hours: 48⁴

Course Requirements for Major

- ENGR 3090 - Senior Seminar **Credits: 1**

- ENME 3020 - Engineering Analysis - **Credits: 3**
OR
- MATH 3221 - Meth in Differential Equations - **Credits: 3**

- ENME 3711 - Thermal Sciences Lab - **Credits: 1**
- ENME 3716 - Fluid Mechanics Lab - **Credits: 1**
- ENME 3720 - Fluid Mechanics - **Credits: 3**
- ENME 4777 - Design Thermal-Fluid Systems - **Credits: 3**
- ENME 3734 - Machine Elements - **Credits: 3**
- ENME 4733 - Machine Design - **Credits: 3**
- ENME 4754 - Mech Vibration - **Credits: 3**
- ENME 3771 - Heat Transfer - **Credits: 3**
- ENME 3776 - Intermed Engr Thermodynamics - **Credits: 3**

- ENME 3780 - Intro to Comp Solid Mechanics - **Credits: 3**
OR
- ENME 4728 - Intro Computat Fluid Dynamics - **Credits: 3**

- ENME Electives 3000+ **Credits: 6**
- ENME 3735 - Mechanism Design - **Credits: 3**

Total Credit Hours: 39

Total Credit Hours Required: 126

1. "C" or better required
2. Check [General Education Courses](#) to confirm what courses fulfill this requirement.
3. 6 credits of Math satisfy listed in general education. Check [General Education Courses](#) to confirm what courses fulfill this requirement.
4. Includes 2 credits of Math listed in General Education requirements section