# Mechanical Engineering Technology, B.S., Manufacturing Concentration

**General Studies**
- 42 min

**Major courses**
- 51

**Additional requirements**
- 11

**Concentration**
- 25

**Total to graduate (min. 40 hrs upper division)**
- 129

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**Written Communication**
- **ENG 1010 (3hrs)** Composing Arguments*
- **OR** **ENG 1008/1009 (6 hrs.)** Freshman Comp: The Essay Part I & II*
- **ENG 1020 (3hrs)** Freshman English: Rsrch, Anly, & Documt. (must be completed within 45-credit hours)

**Oral Communication**
- **SPE 1010 (3 hrs)** Public Speaking

**Quantitative Literacy**: students must earn a grade of "C" or higher
- **MTH 1410 (4 hrs)** Calculus I
- **or** **MTH 1400 (4 hrs)** Pre-Calculus & MTH 1410 (4 hrs) Calculus I

*(Note: MTH 1110-4 College Algebra & MTH 1120-3 Trigonometry may substitute for MTH 1400).*

**Arts & Humanities**
- **PHI 1030 (3 hrs)** Introduction to Ethics
- **(3 hrs)**

**Historical**
- **(3 hrs)**

**Social & Behavioral Sciences I**
- **ECO 2010 (3 hrs)** Principles of Economics: Macro

**Social & Behavioral Sciences II**
- **(3 hrs)**

**Natural & Physical Sciences**
- **CHE 1800 (4 hrs)** General Chemistry I
- **PHY 2311 (4 hrs)** General Physics I
- **PHY 2321 (1 hr)** General Physics I Lab
- **PHY 2331 (4 hrs)** General Physics II
- **PHY 2341 (4 hrs)** General Physics II Lab

**Global Diversity** May be satisfied within general studies
- **(3 hrs)**

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**MAJOR COURSES:** For every MET course, a minimum grade of "C" is required for all prerequisites before a student can progress.
- **MET 1000 (3 hrs)** Introduction to Mechanical Engineering Technology
- **MET 1010 (3 hrs)** Manufacturing Processes
- **MET 1200 (3 hrs)** Technical Drawing I
- **MET 1210 (3 hrs)** 3D Modeling
- **MET 1310 (3 hrs)** Principles of Quality Assurance
- **MET 2200 (3 hrs)** Materials of Engineering
- **MET 3110 (3 hrs)** Thermodynamics
- **MET 3160 (3 hrs)** Mechanics II-Dynamics
- **MET 3180 (3 hrs)** Fluid Mechanics I
- **MET 3210 (4 hrs)** Introduction to Computer Aided Engineering
- **MET 3410 (3 hrs)** Geometric Dimensioning and Tolerancing
- **MET 4000 (3 hrs)** Project Engineering
- **CET 2150 (3 hrs)** Mechanics I-Statics
- **CET 3135 (4 hrs)** Mechanics of Materials with Laboratory

**Additional Technical Requirements**
- **EET 2000 (3 hrs)** Electric Circuits & Machines
- **EET 3010 (4 hrs)** Industrial Electronics

**Additional Requirements**
- **COM 2610 (3 hrs)** Introduction to Technical Writing
- **MTH 1410 (4 hrs)** Calculus I
- **MTH 2410 (4 hrs)** Calculus II

**Computer Aided Manufacturing Concentration**
- **MET 3000 (4 hrs)** Manufacturing Analysis
- **MET 3100 (3 hrs)** N/C Computer Programming
- **MET 3250 (3 hrs)** Tool Design & Production Tooling
- **MET 3300 (3 hrs)** Statistical Process Control
- **MET 3330 (3 hrs)** Robotics for Manufacturing
- **MET xxxx (3 hrs)** Upper-Division Elective
- **MET 4010 (3 hrs)** Advanced Manufacturing Technology (Sr. Experience)
- **MET 4080 (3 hrs)** Computer Aided Manufacturing

**Multicultural Requirement**
*(May be satisfied within General Studies)*

**Electives**