

The Mechanical Engineering Technology program enables graduates of mechanical, electro-mechanical, manufacturing and similar associate degree engineering technology programs to complete their bachelor's degree in Applied Science with a major in Engineering Technology and a Mechanical concentration.

## RECOMMENDED FOUR-YEAR PLAN

### First Year

<i>First Semester • 15 Credit Hours</i>	<i>Second Semester • 16 Credit Hours</i>
<b>ENT 135</b> Computer-Aided Drafting(3)	<b>ENT 152</b> Computer-Aided Manufacturing I (3)
<b>ENT 137</b> Intro to Engineering Technology (1)	<b>ENT 271</b> Mechanics I: Statics (3)
<b>ENT 151</b> Engineering Materials (3)	<b>STC 135</b> Principles of Public Speaking (3) or <b>STC 136</b> Intro to Interpersonal Communication (3)
<b>ENG 111</b> College Composition (3)	<b>CSE 163</b> Intro to Computer Concepts & Programming (3)
<b>BRIDGE COURSES MTH 125</b> recommended (5)	<b>MTH 151</b> Calculus I (4)*

### Second Year

<i>First Semester • 16 - 17 Credit Hours</i>	<i>Second Semester • 16 - 17 Credit Hours</i>
<b>ENT 235</b> Computer-Aided Design (3)	<b>ENT 192</b> Circuit Analysis I (3)
<b>ENT 252</b> Computer-Aided Manufacturing II (3)	<b>ENT 278</b> Mechanics III: Analysis of Machine Components (3)
<b>ENT 272</b> Mechanics II: Strength of Materials (3)	<b>EGS 215</b> Workplace Writing or <b>ENG 313</b> Technical Writing (3)
<b>PHY 161</b> Physics for Life Science I (4) or <b>PHY 191</b> Physics with Lab I (5)	<b>ECO 201</b> Microeconomics (3) or <b>ECO 202</b> Macroeconomics (3)
<b>PA</b> Global Citizenship (3)	<b>PHY 162</b> Physics for Life Science II (4) or <b>PHY 192</b> Physics with Lab I (5)

### Third Year

<i>First Semester • 16 Credit Hours</i>	<i>Second Semester • 19 - 20 Credit Hours</i>
<b>ENT 301</b> Dynamics (3)	<b>ENT 314</b> Mechanisms for Mech. Design (3)
<b>ENT 310</b> Fluid Mechanics (3)	<b>ENT 316</b> Project Management (3)
<b>ENT 312</b> Thermodynamics & Heat Pwr (3)	<b>ENT 404</b> Experimentation Techniques (3)
<b>MTH 251</b> Calculus II (4)	<b>STA 301</b> Applied Statistics (3) or <b>STA 261</b> Statistics (4)
<b>PA</b> Global Citizenship (3)	<b>MTH 245</b> Differential Equations for Engineers (3)
	<b>PA</b> Global Citizenship (3)

### Fourth Year

<i>First Semester • 16-17 Credit Hours</i>	<i>Second Semester • 14 - 15 Credit Hours</i>
<b>ENT 355</b> Intro to Finite Element Analysis (3)	<b>ENT 415</b> Heat Transfer w/Applications (3)
<b>ENT 416</b> Topics in Mechanical Vibrations (3)	<b>ENT 498</b> Senior Design Project (2)
<b>ENT 497</b> Senior Design Project (2)	<b>PA</b> Global Citizenship (3)
<b>CHM141/144</b> College Chemistry with Lab (5-6)	<b>PA</b> Humanities (3)
<b>PA</b> Creative Arts (3)	<b>PA</b> Signature Inquiry or Elective (3)

\*Depending on mandatory math placement

This planning sheet does not guarantee offer of classes in any given semester; please consult with an Advisor to schedule your classes appropriately. Your degree audit is your official program record.

## CAREER OPTIONS

Many mechanical engineering technologists work on team projects within manufacturing-related areas such as testing, analysis, design and development of industrial and consumer products. Mechanical Engineering Technology graduates are well positioned to be employed in areas that permit rapid advancement into engineering management positions. All graduates of this program are eligible to sit for the engineer-in-training examination within the state of Ohio. Graduates may also continue their education at the graduate level, and will find employment opportunities in a diverse spectrum of professional fields such as:

- Computer Aided Design
- Computer Aided Manufacturing
- Computer Aided Analysis

## GRADUATION REQUIREMENTS

Students must earn a minimum of 124 credit hours, achieve an overall GPA of 2.0 and a 2.0 in all required ENT courses in order to qualify for graduation. Students should consult with their DAR and advisor to ensure that all degree requirements are met prior to graduation.

<http://bulletin.miamioh.edu/liberal-arts-applied-science/engineering-technology-bs/>

## CONTACT INFORMATION

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