

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

## RECOMMENDED FOUR-YEAR PLAN

### First Year

<i>First Semester • 12 - 18 Credit Hours</i>	<i>Second Semester • 18 - 19 Credit Hours</i>
<b>ENG 111</b> English Composition (3)	<b>ENT 193</b> Circuit Analysis II (3)
<b>ENT 135</b> Computer-Aided Drafting (3)	<b>ENT 196</b> Electronics (3)
<b>ENT 192</b> Circuit Analysis I (3)	<b>MTH 151</b> Calculus I (5)*
<b>BRIDGE COURSES</b> <b>MTH 125</b> recommended (5) <b>ENT 137</b> Intro to ENT recommended (1)	<b>EGS 215</b> Workplace Writing (3) or <b>ENG 313</b> Technical Writing (3)
<b>MPF IIB</b> Humanities (3)	<b>PHY 161</b> Physics for Life Science I (4) or <b>PHY 191</b> Physics with Lab I (5)

### Second Year

<i>First Semester • 16 - 17 Credit Hours</i>	<i>Second Semester • 15 - 16 Credit Hours</i>
<b>ENT 293</b> Digital Systems (3)	<b>STC 136</b> Intro to Interpersonal Communication (3) or <b>STC 135</b> Principles of Public Speaking (3)
<b>PHY 162</b> Physics for Life Science II (4) or <b>PHY 192</b> Physics with Lab I (5)	<b>ECO 201</b> Principles of Microeconomics (3) or <b>ECO 202</b> Principles of Macroeconomics (3)
<b>ENT Technical Elective</b> utilize courses from AAS in consultation with advisor (5)	<b>CSE 163</b> Intro to Computer Programming (3) or <b>CSE 153</b> Intro to C/C++ Programming (3)
<b>MPF III</b> Global Perspectives (3)	<b>ENT Technical Elective</b> utilize courses from AAS in consultation with advisor (3)
	<b>MPF IV</b> Natural Science (Biological) (3-4)

### Third Year

<i>First Semester • 16 - 17 Credit Hours</i>	<i>Second Semester • 15 Credit Hours</i>
<b>ENT 271</b> Mechanics I: Statistics (3)	<b>ENT 151</b> Engineering Materials (3)
<b>ENT 301</b> Dynamics (3)	<b>ENT 272</b> Mechanics II: Strength of Materials (3)
<b>ENT 311</b> Process Control Interface Design (3)	<b>ENT 310</b> Fluid Mechanics (3)
<b>MTH 251</b> Calculus II (4)	<b>ENT 316</b> Project Management (3)
<b>STA 261</b> Statistics (4) or <b>STA 301</b> Applied Statistics (3)	<b>MP-IP</b> Intercultural Perspectives (3)

### Fourth Year

<i>First Semester • 16 - 17 Credit Hours</i>	<i>Second Semester • 17 Credit Hours</i>
<b>ENT 401</b> Computer Instrumentation (3)	<b>ENT 402</b> Industrial Automation Lab (3)
<b>ENT 497</b> Senior Design Project (2)	<b>ENT 407</b> Modern Mfg Systems (3)
<b>CHM141/144</b> College Chemistry with Lab (5-6)	<b>ENT 418</b> Electro-Mechanical Control Systems (3)
<b>MPF III</b> Global Perspectives (3)	<b>ENT 498</b> Senior Design Project (2)
<b>MPV IIA</b> Creative Arts (3)	<b>MTH 245</b> Differential Equations for Engineers (3)
	<b>MTH 231</b> Elements of Discrete Mathematics (3) or <b>MTH 222</b> Intro to Linear Algebra (3)**

\*Depending on mandatory math placement

\*\* Completes Thematic Sequence MTH-2: Basic Mathematical Tools for Science

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

Graduates of the Electro-Mechanical Engineering Technology program are engineering technologists prepared to fill industrial positions in areas directly related to process control, electronic instrumentation, testing, manufacturing, sales and service. Typical engineering technologist's duties may include but are not limited to:

- Analysis and Design of Process Control Equipment
- Laboratory Testing Services
- Product Sales and Service
- Applications Engineering
- Development of Systems with Hardware Interface

## 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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## ABBREVIATION KEY

MP-EL = Experiential Learning

MPF I = English Composition

MPF IIC = Social Science

MPF V = Mathematics, Formal Reasoning, Technology

MPT = Thematic Sequence

MP-AW = Advanced Writing

MPF = Global Miami Plan Foundation

MPF IIB = Humanities

MPF IV = Natural Science

MP-IP = Intercultural Perspectives

MPF IIA = Creative Arts

MPF III = Global Perspectives