MIAMI UNIVERSITY
REGIONALS

BS: Mechanical Engineering Technology

129 Credit Hours | Fall 2022, Catalog Year 202310

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

First Semester • 15 Credit Hours	*Second Semester • 13 - 14Credit Hours*
ENT 135 Computer-Aided Drafting(3)	**ENT 152** Computer-Aided Manufacturing I (3)
ENT 137 Intro to Engineering Technology (1)	**ENT 271** Mechanics I: Statics (3)
ENT 151 Engineering Materials (3)	
ENG 111 College Composition (3)	**CSE 163** Intro to Computer Concepts & Programming (3)
BRIDGE COURSES MTH 125 recommended (5)	**PHY 161** Physics for LIfe Science I (4) or **PHY 191** Physics with Lab I (5)

Second Year

First Semester • 18 - 19 Credit Hours	*Second Semester • 18 Credit Hours*
ENT 235 Computer-Aided Design (3)	**ENT 192** Circuit Analysis I (3)
ENT 252 Computer-Aided Manufacturing II (3)	**ENT 278** Mechanics III: Analysis of Machine Components (3)
ENT 272 Mechanics II: Strength of Materials (3)	**EGS 215** Workplace Writing (3) or **ENG 313** Technical Writing
MTH 151 Calculus I (5)*	**ECO 201** Microeconomics (3) or **ECO 202** Macroeconomics (3)
PHY 162 Physics for Life Science II (4) or **PHY 192** Physics with Lab I (5)	**STC 135** Principles of Public Speaking (3) or **STC 136** Intro to Interpersonal Communication (3)
	MPF III Global Perspectives (3)

Third Year

First Semester • 16 Credit Hours	*Second Semester • 18 - 19 Credit Hours*
ENT 301 Dynamics (3)	**ENT 314** Mechanisms for Mech. Design (3)
ENT 310 Fluid Mechanics (3)	**ENT 316** Project Management (3)
ENT 312 Thermodynamics & Heat Pwr (3)	**ENT 404** Experimentation Techniques (3)
MTH 251 Calculus II (4)	**STA 301** Applied Statistics (3) or **STA 261** Statistics (4)
MPF III Global Perspectives (3)	**MTH 245** Differential Equatiions for Engineers (3)
	MP-IP Intercultural Perspectives (3)

Fourth Year

First Semester • 16-17 Credit Hours	*Second Semester • 14 - 15 Credit Hours*
ENT 355 Intro to Finite Element Analysis (3)	**ENT 415** Heat Transfer w/Applications (3)
ENT 416 Topics in Mechanical Vibrations (3)	**ENT 498** Senior Design Project (2)
ENT 497 Senior Design Project (2)	**MTH 231** Elements of Discrete Mathematics (3) or **MTH 222** Intro to Linear Algebra (3)**
CHM141/144 College Chemistry with Lab (5-6)	**MPF IIB** Humanities (3)
MPF IIA Creative Arts (3)	**MPF IV** Natural Science (biological) (3-4)

**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.

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BS: Mechancial Engineering Technology

129 Credit Hours | Fall 2022, Catalog Year 202310

CAREER OPTIONS

Many mechanical engineering technologists work on team projects within manufacturing-related areas such as testing, analyis, 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

Department of Engineering Technology
513-785-1804
ent@MiamiOH.edu
MiamiOH.edu/Regionals/ENT

Office of Admission
513-785-3111
MURAdmission@MiamiOH.edu
MiamiOH.edu/Regionals/Admission

Office of Advising
513-727-3440
regadvising@MiamiOH.edu
MiamiOH.edu/Regionals/Advising

Career Services and Professional Development
513-785-3113 (MUH) | 513-217-3390 (MUM)
miamiregionalscareer@MiamiOH.edu
MiamiOH.edu/Regionals/Careers

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