# **BS: Mechanical Engineering Technology**

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.

**Department of Engineering Technology** 513-785-7706 ent@MiamiOH.edu

**Tutoring and Learning Center (TLC)** 513-785-3139 REGTLC@MiamiOH.edu

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

Career Services & Professional Development 513-727-3390 miamiregionalscareer@MiamiOH.edu

### **Plan Recommendation Chart**

	Hours	Course Number or Related Information
Perspectives Area: Formal Reasoning and Communication	9	
Mathematics and Formal Reasoning	3	MTH151 Calculus
English Composition	3	ENG111 English Composition (or ENG 109)
Advanced Writing	3	EGS215 Workplace Writing or ENG313 Technical Writing
Perspectives Area: Science and Society	15-16	
Social Sciences #1	3	ECO201 Microeconomics or ECO202 Macroeconomics
Social Sciences #2	3	APC/STC136 Intro to Interpersonal Communication
Natural Science #1	4	PHY161 Physics for Life Science I or PHY181 College Physics I
Lab	2	CM144 College Chemistry Lab
Natural Science #2	3-4	CHM141/CHM 141R College Chemistry
Perspectives Area: Arts and Humanities	6	
Creative Arts	3	Choice
Humanities	3	Choice
Perspectives Area: Global Citizenship	12	
Ethical Citizenship and Leadership	3	Choice
Intercultural Consciousness	3	Choice
Global Inquiry	3	Choice
Intercultural or Global	3	Choice – any Miami Plan Global Inquiry OR Intercultural Consciousness
Signature Inquiry	9	
Signature Inquiry #1	3	Choice
Signature Inquiry #2	3	Choice
Signature Inquiry #3	3	Choice
Knowledge in Action	3+	
Senior Capstone	3	ENT497/498 Senior Design Project
Experiential Learning	0+	ENT497 Senior Design Project

## 2025-26 Mechanical ENT Plan of Study (w/MET AAS)

An ENT AAS is a requirement for the Bach. degree and built into the 4 year plan. There may be AAS courses here that are only on the AAS DAR.

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Fall Semester		Hours
ENT135 Computer-Aided Drafting		3
ENT151 Engineering Materials		3
ENG111 College Composition		3
MTH124 Trigonometry		3
PA Global Citizenship		3
ENT137 Intro to Engineering Technology		1
	Total	16

Spring Semester	Hours
ENT152 Computer-Aided Manufacturing I	3
ENT271 Mechanics I: Statics	3
APC/STC136 Intro to Interpersonal Communication	3
CIT163 Intro to Computer Programming or CIT153	3
Intro to C/C++ Programming	3
PHY161 Physics for Life Science I OR PHY181+183	
General Physics I (Note: PHY 181+183 means taking MTH	4-5
151 now, then MTH 251 & APC136 in the upcoming fall)	
Tota	16-17

#### **Year Two**

Fall Semester	Hours
ENT235 Computer-Aided Design	3
ENT252 Computer-Aided Manufacturing II	3
ENT272 Mechanics II: Strength of Materials	3
MTH151 Calculus I	4
PA Global Citizenship	3
Tota	16-17

Spring Semester	Hours
ENT192 Circuit Analysis I	3
ENT278 Mechanics III: Analysis of Machine	3
Components	3
EGS215 Workplace Writing or ENG313 Technical	3
Writing	3
ECO201 Principles of Microeconomics or ECO202	3
Principles of Macroeconomics	
PHY162 Physics for Life Science II OR PHY182+184	4-5
General Physics II	4-0
Tota	16-17

#### **Year Three**

Fall Semester	Hours
ENT301 Dynamics	3
ENT310 Fluid Mechanics	3
ENT312 Thermodynamics & Heat Power	3
MTH251 Calculus II	4
PA Global Citizenship	3
То	tal 16

Spring Semester	Hours
ENT314 Mechanisms for Mech. Design	3
ENT316 Project Management	3
ENT404 Experimentation Techniques	3
STA301 Applied Statistics or STA261 Statistics	3-4
MTH245 Differential Equations for Engineers	3
Tota	15-16

#### **Year Four**

Fall Semester	Hours
ENT355 Intro to Finite Element Analysis	3
ENT478 Product Development in Engineering	3
ENT497 Senior Design Project	2
CHM141/R+CHM144 College Chemistry w/Lab	5-6
PA Creative Arts	3
Tota	d 16-17

Spring Semester	Hours
ENT415 Heat Transfer w/Applications	3
ENT498 Senior Design Project	2
MTH222 Intro to Linear Algebra or MTH231	3
Elements of Discrete Math (if MTH124 not taken)	
PA Humanities	3
PA Global Citizenship	3
Total	14

There is a minimum of 124 hours required to graduate. To finish in eight semesters, take Major or PA courses that also complete the SI Signature Inquiry requirement



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