MIAMI UNIVERSITY | COLLEGE OF LIBERAL ARTS AND APPLIED SCIENCE

BS: Electro-Mechanical Engineering Technology

(with MET AAS)

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.

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

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

Tutoring and Learning Center (TLC)
513-785-3139
REGTLC@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	4-5	PHY161 Physics for Life Science I or PHY181 College Physics I
Lab	2	CHM144 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 Electro-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.

Year One

Fall Semester	Hours
ENG111 College Composition	3
ENT135 Computer-Aided Drafting	3
ENT151 Engineering Materials	3
MTH124 Trigonometry	3
PA Humanities	3
ENT 137 Introduction to Engineering Technology	1
Total	**16**

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

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

Year Three

Fall Semester	Hours
ENT271 Mechanics I: Statics	3
ENT301 Dynamics	3
ENT311 Process Control Interface Design	3
MTH251 Calculus II	4
STA301 Applied Statistics or **STA261** Statistics	3-4
Total	**16-17**

Spring Semester	Hours
ENT272 Mechanics II: Strength of Materials	3
ENT310 Fluid Mechanics	3
ENT316 Project Management	3
PA Global Citizenship	3
PA Global Citizenship	3
Total	**15**

Year Four

Fall Semester	Hours
ENT401 Computerized Instrumentation	3
ENT497 Senior Design Project	2
CHM141/R+144 College Chemistry w/Lab	5-6
PA Creative Arts	3
PA Global Citizenship	3
Total	**16-17**

Spring Semester	Hours
ENT402 Industrial Automation Lab	3
ENT407 Modern Manufacturing Systems	3
ENT418 Electro-Mechanical Control Systems	3
ENT498 Senior Design Project	2
MTH245 Differential Equations for Engineers	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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For advising questions, please contact your assigned advisor or Regional Academic Advising at regadvising@MiamiOH.edu or 513-727-3440