BS: Electrical & Computer Engineering Technology

The ECET program has direct impact on the developing energy and environmental sectors, dual-use technologies and civilian and military use. Graduates have the necessary technical and managerial skills for careers in design, application, installation, manufacturing and maintenance of electro-computer systems.

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513-727-3390
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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 Electrical & Computer ENT Plan of Study (w/ECET AAS)

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

Year One

Fall Semester	Hours	Spring Semester	Hours
ENG111 College Composition	3	APC/STC136 Intro to Interpersonal Communication	3
ENT192 Circuit Analysis I	3	PHY161 Physics for Life Science I OR PHY181+183 General Physics I (Note: if taking PHY 181+183 you will need to take MTH 151 now & APC136 in the upcoming fall)	4-5
ENT 135 Computer-Aided Drafting (AAS)	3	ENT193 Circuit Analysis II	3
PA Creative Arts	3	CIT163 Intro to Computer Programming or CIT153 Intro to C/C++ Programming	3
MTH124 Trigonometry	3	ENT296 Programmable Logic Controllers (AAS)	3
ENT 137 Introduction to Engineering Technology	1		
Total	**16**	**Total**	**16**

Year Two

Fall Semester	Hours	Spring Semester	Hours
ENT196 Electronics	3	ENT295 Microcontrollers	3
ENT293 Digital Systems	3	PHY162 Physics for Life Science II OR PHY182+184 General Physics II (Note: if taking PHY 182+184 you will need to take the co-requisite MTH 251 now)	4
ENT294 Local Area Networks	3	MTH251 Calculus II	4
EGS215 Workplace Writing or ENG313 Technical Writing	3	ECO201 Principles of Microeconomics or ECO202 Principles of Macroeconomics	3
MTH151 Calculus	4	PA Global Citizenship	3
Total	**16**	**Total**	**17**

Year Three

Fall Semester	Hours	Spring Semester	Hours
ENT311 Process Control Interface Design	3	ENT271 Mechanics I: Statistics	3
STA301 Applied Statistics or STA261 Statistics	3-4	ENT313 Intro to Robotics Systems or ENT413 Industrial Robotics Lab	3
MTH253 Intro to Technical Computing	3	ENT316 Project Management	3
CHM141/R+144 College Chemistry with Lab	5-6	ENT387 Embedded Systems Technology	3
PA Global Citizenship	3	MTH245 Differential Equations for Engineers	3
Total	**17-18**	**Total**	**15**

Year Four

Fall Semester	Hours	Spring Semester	Hours
ENT301 Dynamics	3	ENT402 Industrial Automation Lab	3
ENT303 Digital Signal Processing Technology	3	ENT403 Wireless Communication & Networks	3
ENT401 Computerized Instrumentation	3	ENT418 Electro-Mechanical Control Systems	3
ENT497 Senior Design Project	2	ENT498 Senior Design Project	2
PA Global Citizenship	3	PA Humanities	3
MTH253 Intro to Technical Computing	1	PA Global Citizenship	3
Total	**15**	**Total**	**17**

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

MIAMI UNIVERSITY | COLLEGE OF LIBERAL ARTS AND APPLIED SCIENCE

For advising questions, please contact your assigned advisor or Regional Academic Advising at regadvising@MiamiOH.edu or 513-727-3440