

The world will always need engineers - highly-skilled professionals who keep machines processing and producing, cogs turning and systems in check. Electrical & Computer Engineering Technology prepares graduates for work in that portion of the technological spectrum closest to product improvement, industrial processes and operational functions.

RECOMMENDED FOUR-YEAR PLAN

First Year

<i>First Semester • 14 Credit Hours</i>	<i>Second Semester • 13 - 14 Credit Hours</i>
ENG 111 English Composition (3)	STC 136 Intro to Interpersonal Communication (3) or STC 135 Principles of Public Speaking (3)
ENT 192 Circuit Analysis I (3)	PHY 161 Physics for Life Science I (4) or PHY 191 Physics with Lab I (5)
BRIDGE COURSES MTH 125 recommended (5)	ENT 193 Circuit Analysis II (3)
MPF IIA Creative Arts (3)	CSE 163 Intro to Computer Programming (3)

Second Year

<i>First Semester • 17 Credit Hours</i>	<i>Second Semester • 13 - 14 Credit Hours</i>
ENT 196 Electronics (3)	ENT 295 Microprocessor Technology I (3)
ENT 293 Digital Systems (3)	PHY 162 Physics for Life Science II (4) or PHY 192 Physics with Lab I (5)
ENT 294 Local Area Networks (3)	ECO 201 Principles of Microeconomics (3) or ECO 202 Principles of Macroeconomics (3)
EGS 215 Workplace Writing (3) or ENG 313 Technical Writing (3)	MPF III Global Perspectives (3)
MTH 151 Calculus (5)*	

Third Year

<i>First Semester • 15 - 17 Credit Hours</i>	<i>Second Semester • 18 Credit Hours</i>
ENT 311 Process Control Interface Design (3)	ENT 271 Mechanics I: Statistics (3)
MTH 251 Calculus II (4)	ENT 302 Fund. of Signals & Systems (3)
STA 301 Applied Statistics (3) or STA 261 Statistics (4)	ENT 316 Project Management (3)
CHM 141/144 College Chemistry with Lab (5-6)	ENT 387 Embedded Systems Technology (3)
	MTH 245 Differential Equations for Engineers (3)
	MTH 231 Elements of Discrete Mathematics (3) or MTH 222 Intro to Linear Algebra (3)**

Fourth Year

<i>First Semester • 17 - 18 Credit Hours</i>	<i>Second Semester • 17 Credit Hours</i>
ENT 301 Dynamics (3)	ENT 402 Industrial Automation Lab (3)
ENT 303 Digital Signal Processing Technology (3)	ENT 403 Wireless Communication & Networks (3)
ENT 401 Computerized Instrumentation (3)	ENT 418 Electo-Mechanical Control Systems (3)
ENT 497 Senior Design Project (2)	ENT 498 Senior Design Project (2)
MPF III Global Perspectives (3)	MPF IIB Humanities (3)
MPV IV Natural Science (biological) (3-4)	MP-IP Intercultural Perspectives (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

The ECET program has direct impact on the developing and growing energy and environmental sectors, dual-use technologies and civilian and military use. It will give graduates the necessary technical and managerial skills for careers in design, application, installation, manufacturing, operation and maintenance of electrical/electronic/computer systems. ECET graduates work in a wide spectrum of careers including:

- Automated Manufacturing
- Instrumentation and Control
- Medical Systems
- Energy and Environmental Systems
- Wireless Communication
- Digital Signal Processing

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