Department of Engineering Technology
Bachelor of Science in Applied Science—Completion Program
Major: Electrical and Computer Engineering Technology
For students entering Fall 2023 and after from
Terra State Community College

Catalog Year: Fall 2023

The Electrical and Computer Engineering Technology bachelor completion program is designed for students who have completed an associate degree in electrical/electronic, electrical and computer engineering technology. The degree is also open to students with associate degrees in mechanical, electro-mechanical, robotics, or related fields, potentially requiring additional credit hours for the latter group. Through this program students can complete their bachelor's degree by completing two-years of additional credit hours beyond their associate degree. Additional information is available through the Department of Engineering Technology.

To graduate with the Bachelor of Science in Applied Science degree, students must first meet all Miami University admission requirements noted on the Admission and Aid Website. Students must also meet Miami's general requirements for graduation, including: (1) completion of 124 credit hours; (2) completion of a minimum of 30 credit hours at Miami of which the final 12 credit hours must be taken at Miami; and (3) attainment of a minimum of a 2.00 cumulative grade point average at the time of graduation.

Note: Neither Miami University nor Terra State Community College shall use the name, logo, likeness, trademarks, image or other intellectual property of either of the other parties for any advertising, marketing, endorsement or any other purposes without the specific prior written consent of an authorized representative of the other party as to each such use. Terra State Community College may refer to the affiliation with Miami University in public information materials regarding the relevant program. Miami University reserves the right to review and request modification of Terra State Community College's reference to Miami University as necessary. Terra State Community College may refer to the affiliation with Miami in its brochures and other public information materials having to do with the program.

The plan of study below illustrates: 1) how courses completed at Terra State Community College transfer to Miami University, and (2) what courses the student needs to complete at Miami in order to earn the Bachelor of Science in Applied Science degree with a major in Electrical and Computer Engineering Technology. Please note the matches in this document indicate specific courses you may be awarded after successfully completing those courses and transferring to Miami University.

Students completing the OT36 through their General Education credits will have completed most requirements for Miami Plan Perspectives Areas and Signature Inquiries. Students entering Miami having completed the OT36 must complete 9 credits of Signature Inquiry, however this may be met by matching equivalent Perspectives courses that have a Signature Inquiry designation. Students will also need to complete coursework in Global Citizenship (Intercultural Consciousness or Global Inquiry for 3 credits), Knowledge in Action: Experiential Learning (0 credits), and a Senior Capstone (3 credits).

Courses that do not have a Miami University equivalent will be recorded as "T" courses on the student's Miami University academic record. With the assistance of an academic advisor, students can petition for some "T" courses to count toward Miami University degree requirements.

Foundation Requirements
* Included in the Ohio Transfer Module (OTM)

Required Course from Miami	Acceptable Terra State Community College Transfer Credit
ENG 111, One year of Freshman English College I Composition or ENG 109 College Composition for Second Language Writers	ENG 1050* English Composition I
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECO2010 Macroeconomics or ECO 2020* Microeconomics
STC 135 Intro to Public Expression and Critical Inquiry or STC 136 Intro to Interpersonal Communication	SPE 2010* Effective Speaking
ENG 215 Workplace Writing or ENG 313 Technical Writing	ENG1900 Technical Writing
CHM 141 College Chemistry (3) and CHM 144 College Chemistry Lab (2)	CHM 1010* and CHM 1015* General Chemistry
PHY 161 Physics for Life Sciences I with Lab OR PHY 181 General Physics I **and** PHY 183 lab	PHY1310* and PHY 1315* Physics I
PHY 162 Physics for Life Sciences I with Lab OR PHY 182 General Physics I **and** PHY 184 Lab	PHY1320* and PHY1325* Physics II
MTH 151 Calculus I	MTH 2510* Calculus I
MTH 251 Calculus II	MTH 2520* Calculus II
Approved Intercultural Perspectives **if admitted to Miami prior to Fall 2023** or Intercultural Consciousness Elective **if admitted to Miami on or after Fall 2023** (Online Options)	Take from Miami

Complete Engineering Technology (ENT) core courses listed below. You should have taken some of these in your associate degree program. Calculus I must be completed prior to starting Miami courses.

Engineering Technology Core Courses

Required Course from Miami	Acceptable Terra State Community College Transfer Credit
CSE 153/163 Introduction to C/C++ Programming or similar course	CIT 1210 Visual Programming
ENT 192 Circuit Analysis I (3) [OET001 DC Circuits]	EET 1050 Electricity I
ENT 193 Circuit Analysis II (3) [OET003 AC Circuits]	EET 1710 AC Circuits
ENT 196 Electronics (3) [OET005 Electronics]	EET 1360 Power Electronics
ENT 271 Mechanics I – Statics [OET007 Statics]	MET 2110 Statics
ENT 293 Digital Systems [OET002 Digital]	EET 2730 Digital Circuits or Take from Miami
ENT 294 Local area Networks	CIT 1400 Networking I
ENT 295 Microprocessor Technology I [OET004 Microprocessors]	
MTH 245 Differential Equations	MATH 2630 Differential Equations

Technical Electives
Take ONE of the following technical electives from Miami:
    ENT313 - Introduction to Robotics
    ENT413 - Industrial Robotics Lab
	Take from Miami

STA 261 or STA 301 Applied Statistics ***	MTH 2010 Statistics
ENT 301 Dynamics ***	Take from Miami
ENT 302 Fundamentals of Signals & Systems ***	Take from Miami
ENT 303 Digital Signal Processing for Tech. ***	Take from Miami
ENT 311 Process Control Interface Design	Take from Miami
ENT 316 Project Management	Take from Miami
ENT 387 Embedded Microcontrollers	Take from Miami
ENT 401 Computerized instrumentation	Take from Miami
ENT 402 Industrial Automation Lab	Take from Miami
ENT 403 Wireless Communication & Networks	Take from Miami
ENT 418 Electromechanical Control Systems	Take from Miami

Required Course from Miami	Acceptable Terra State Community College Transfer Credit
ENT 497 Senior Design I	Take from Miami
ENT 498 Senior Design II	Take from Miami

Distance Courses Offered Via WebEx from Miami.

Calculus I must be completed prior to starting Miami courses.

***Transfer Equivalencies within ENT program ONLY**

SPECIAL NOTES

1. When applying to Miami University Regionals, please apply early for best course availability. For Fall applicants, we suggest applying in the Spring semester.

2. Application Deadlines: Fall Admission – August 1st. Spring Admission – January 1st.

3. Transfer Scholarship Deadlines: Fall Admission – June 1. Spring Admission – December 1. See the Miami Regionals scholarship page for more information: https://www.miamioh.edu/regionals/tuition-financial-aid/scholarships/index.html

Link to Miami degree program

http://www.miamioh.edu/regionals/ent

Miami Contact Name and Information:

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