

Miami University
 Department of Engineering Technology
 Bachelor of Science in Applied Science—Completion Program
Major: Robotics Engineering Technology
For students entering Fall 2020 and after
Southern State Community College
 Updated: Spring 2022

This Bachelor of Science in Applied Science Completion Program is designed for students who have completed an associate degree in Mechanical, Electro-Mechanical or similarly titled engineering technology programs. Graduates from other Engineering Technology programs will also receive favorable credit transfer. Graduates from other Engineering Technology programs will also receive favorable credit transfer. Through this program you can complete your BS degree by completing two-years of additional credit hours beyond your associate degree.

Further information is available through <http://www.miamioh.edu/regionals/ent>.

This articulation is meant to be a guide only. Your final degree requirements are established upon matriculation to Miami and are detailed in your degree audit report (DAR) provided by Miami. Work closely with a Miami advisor (listed below) to clarify final requirements. Students entering this program must meet all admission requirements available at <http://www.miamioh.edu/regionals/admission/transfer-students> for transfer students or in the *Miami Bulletin*. For students who graduated from high school after 1985, these requirements include a foreign language in high school (two years) or college (one year). Students who do not meet these requirements at admission will still be admitted but must make up any deficiencies prior to graduating from Miami.

There are four areas of program requirements. About one-half of these requirements will be met while completing your associate degree. In addition, students must meet the general requirements for graduation from Miami which include a minimum of 30 credit hours taken from Miami and 12 of the last 30 credit hours must be taken from Miami. Students are also required to have a PC laptop.

Requirements Summary

1. Complete your associate degree in Mechanical, Electro-Mechanical or similarly titled Engineering Technology program at your current college.
2. Complete the Ohio Transfer Module at your institution. This Module is available at <https://www.ohiohighered.org/transfer/transferrmodule/modules> Click on your college. Once complete, have the registrar at your college notate completion in your transcript: “Ohio Transfer Module Complete” and send the revised transcript to Miami. Advising for this module is available at your college. See the registrar or advising office.
3. Complete general education requirements specified by the Engineering Technology (ENT) department. (*Included in the Ohio Transfer Module)

Required Course From Miami	Acceptable Cincinnati State Technical and Community College Transfer Credit**
* Included in the Ohio Transfer Module (OTM)	
ENG 111, One year of Freshman English College I Composition or ENG 109 College Composition for Second Language Writers	ENGL 1101* English Composition I
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECON 2205* Microeconomics or ECON 2206* Macroeconomics
STC 135 Intro to Public Expression and Critical Inquiry or STC 136 Intro to Interpersonal Communication	COMM 1115* Fundamentals for Effective Speech
ENG 215 Workplace Writing OR ENG 313 Technical Writing	ENGL 2205* Technical Report Writing
PHY 161 Physics for Life Sciences with Lab I or PHY 191 General Physics with Lab I	PHYS 2201* College Physics I and PHYS 2221* College Physics I Lab
PHY 162 Physics for Life Sciences with Lab II or PHY 192 General Physics with Lab II	PHYS 2202* College Physics II and PHYS 2222* College Physics II Lab
CHM 141 College Chemistry (3) and CHM 144 College Chemistry Lab (2)	CHEM 1151* Chemistry I and CHEM 1161* Chemistry I Lab

MTH 151 Calculus I	MATH 2221* Calculus I
MTH 251 Calculus II	MATH 2222* Calculus II
Approved Intercultural Perspectives Elective (Online Options)	Approved Intercultural Perspectives Elective (Offered Online)

4. 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.

Required Course From Miami	Acceptable Cincinnati State Technical and Community College Transfer Credit**
Engineering Technology Core Courses	
ENT 135 Computer-Aided Drafting [OET012 Computer Aided Design]	ENDS 1140 Introduction to Engineering Graphics and AutoCAD
CSE 153 Introduction to C/C++ Programming or similar course	CSCI 2260 Microcontroller Programming
ENT 192 Circuit Analysis I [OET001 DC Circuits]	EENG 1105 DC Circuits and Devices
ENT 193 Circuit Analysis II [OET003 AC Circuits]	EENG 1115 AC Circuits and Devices
ENT 196 Electronics [OET005 Electronics]	EENG 2215 Analog Circuits and Devices
ENT 271 Mechanics I: Statics [OET007 Statics]	ENDS 2201 Statics
ENT 272 Strength of Materials [OET008 Strength of Materials]	ENDS 2203 Strength of Materials
ENT 293 Digital Systems [OET002 Digital]	EENG 2205 Digital Electronics
ENT 296 Programmable Logic Controllers	EENG 2285 Manufacturing Control Systems or Take from Miami
MTH 245 Differential Equations or ENT 333 Computational Methods for Engineering Technology	MATH 2230 Differential Equations or Take from Miami
STA 261 Statistics or STA 301 Applied Statistics ***	*Recommend: Take STA 261 online from Miami (alternate: MATH 2281, beware 30 hour requirement)
One Credit Hour Independent Study or Miami ENT Exploratory Course (to ensure 30 Miami Credit Hours if necessary)	Take from Miami (Distance Option)
ENT 301 Dynamics ***	Take from Miami or ENDS 2202, B or better
ENT 311 Process Control Interface Design ***	Take from Miami
ENT 313 Introduction to Robotics Systems	Take from Miami
ENT 316 Project Management ***	Take from Miami
ENT 401 Computerized Instrumentation ***	Take from Miami
ENT 413 Industrial Robotics Lab	Take from Miami
ENT 417 Integrated Robotics System Engineering	Take from Miami
ENT 418 Electromechanical Control Systems ***	Take from Miami
ENT 497 Senior Design I ***	Take from Miami
ENT 498 Senior Design II ***	Take from Miami
***Distance Courses Offered Via IVDL and/or WebEx from Miami. Calculus I must be completed prior to starting Miami courses.	
**Transfer Equivalencies within ENT program ONLY	

To apply for this program: <http://www.miamioh.edu/regionals/apply>

For tuition information: <https://miamioh.edu/onestop/your-money/tuition-fees/regional-campuses/index.html>

For more information, contact:

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