

Department of Engineering Technology  
Bachelor of Science in Applied Science—Completion Program  
**Major: Electro-Mechanical Engineering Technology**  
For students entering Fall 2023 and after  
**Southern State Community College**

**Catalog Year: Fall 2023**

Miami University and Southern State Community College are parties to an agreement titled INSTITUTIONAL ARTICULATION AGREEMENT BETWEEN MIAMI UNIVERSITY AND SOUTHERN STATE COMMUNITY COLLEGE entered into on April 1, 2024 (the “Agreement”). This Pathway is entered into pursuant to the terms and conditions of the Agreement, and is hereby incorporated into the Agreement by this reference. Except as otherwise set forth, the Agreement is unaffected and shall continue in full force and effect in accordance with its terms.

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 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 [Miami 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.

The plan of study below illustrates: 1) how courses completed at Southern 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 Electro-Mechanical 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 Southern 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 1101* English Composition I
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECO 2205* Microeconomics or ECO 2206* Macroeconomics
STC 135 Intro to Public Expression and Critical Inquiry or STC 136 Intro to Interpersonal Communication	SPCH 1510* Speech or SPCH 2060 Interpersonal Communication COMM 1110 Interpersonal Communication COMM 1115 Fundamentals of Effective Speech
ENG 215 Workplace Writing or ENG 313 Technical Writing	ENG 2205* Technical Report Writing
PHY 161 Physics for Life Sciences I with Lab OR PHY 181 General Physics I <b>and</b> PHY 183 Lab	PHYS 2201* College Physics I and PHYS 2221* College Physics I Lab
PHY 162 Physics for Life Sciences II with Lab OR PHY 182 General Physics II <b>and</b> PHY 184 Lab	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 <b>if admitted to Miami prior to Fall 2023</b> or Intercultural Consciousness Elective <b>if admitted to Miami on or after Fall 2023</b> (Online Options)	SOCI 1107* Introduction to Diversity or 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 Southern State Community College Transfer Credit **
CSE 153 Introduction to C/C++ Programming or similar course	ENDS 2270 Computer Apps II CSCI 2203 Visual Basic I, or CSCI 2260 C Programming/Microcontroller Programming CSCI 1121 Introduction to Computer Programming
ENT 135 Computer-Aided Drafting	ENDS 1140 Introduction to Engineering Graphics and AutoCAD
ENT 151 Engineering Materials	ENDS 2261 Manufacturing Materials and Processes
ENT 192 Circuit Analysis I (3) [OET001 DC Circuits]	EENG 1105 DC Circuits and Devices
ENT 193 Circuit Analysis II (3) [OET003 AC Circuits]	EENG 1115 AC Circuits and Devices
ENT 196 Electronics (3) [OET005 Electronics]	EENG 2215 Analog Circuits and Devices
ENT 271 Mechanics I – Statics [OET007 Statics]	ENDS 2201 Engineering Mechanics: Statics
ENT 272 Strength of Materials	ENDS 2203 Strength of Materials
ENT 293 Digital Systems [OET002 Digital]	EENG 2205 Digital Electronics

Required Course from Miami	Acceptable Southern State Community College Transfer Credit **
MTH 245 Differential Equations	MATH 2230 Differential Equations or Take from Miami
STA 261 or STA 301 Applied Statistics ***	MATH 2281 Introductory Statistics or Take from Miami
ENT 301 Dynamics ***	Take from Miami
ENT 310 Fluid Mechanics	Take from Miami
ENT 311 Process Control Interface Design	Take from Miami
ENT 316 Project Management	Take from Miami
ENT 401 Computerized instrumentation	Take from Miami
ENT 402 Industrial Automation Lab	Take from Miami
ENT 407 Modern Manufacturing Systems	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 WebEx from Miami. Calculus I must be completed prior to starting Miami courses.

**\*\*Transfer Equivalencies within ENT program ONLY**

SPECIAL NOTES
<ol style="list-style-type: none"> <li>1. When applying to Miami University Regionals, please apply early for best course availability. For Fall applicants, we suggest applying in Spring semester.</li> <li>2. Application Deadlines: Fall Admission – August 1<sup>st</sup>. Spring Admission – January 1<sup>st</sup>.</li> <li>3. Transfer Scholarship Deadlines: Fall Admission – June 1. Spring Admission – December 1. See the Miami Regionals scholarship page for more information: <a href="https://www.miamioh.edu/regionals/tuition-financial-aid/scholarships/index.html">https://www.miamioh.edu/regionals/tuition-financial-aid/scholarships/index.html</a></li> </ol>

**Link to Miami degree program**

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

**Miami Contact Name and Information:**

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