

## TRANSFER PATHWAY GUIDE

Department of Engineering Technology (ENT) Bachelor of Science in Applied Science—Completion Program  
 Major: Mechanical Engineering Technology  
 For students entering Fall 2023 and after from  
 Cincinnati State Technical and Community College

### Foundation Requirements

\* Included in the Ohio Transfer Module (OTM)

Required Course from Miami	Acceptable Cincinnati State Technical and Community College Credit**
ENG 111, One year of Freshman English College I Composition or ENG 109 College Composition for Second Language Writers	ENG 101* English Composition
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECO 105* Microeconomics or ECO 110* Macroeconomics
STC 135 Intro to Public Expression and Critical Inquiry or STC 136 Intro to Interpersonal Communication	COMM 105 Interpersonal Communication or COMM 110* Public Speaking
ENG 215 Workplace Writing or ENG 313 Technical Writing	ENG 104* Composition and Technical Communication
PHY 161 Physics for Life Sciences I with Lab OR PHY 181 General Physics I and PHY 183 Lab	PHY 151* Algebra & Trigonometry Based Physics I
PHY 162 Physics for Life Sciences II with Lab OR PHY 182 General Physics II and PHY 184 Lab	PHY 152* Algebra & Trigonometry Based Physics II
CHM 141 College Chemistry (3) and CHM 144 College Chemistry Lab (2)	CHE 121* General Chemistry I and CHE 131* Lab for General Chemistry I
MTH 151 Calculus I	MAT 251* Calculus I
MTH 251 Calculus II	MAT 252* 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)	CULT105 Issues in Human Diversity LIT 285 Women Writers SWK 200 Social Welfare Policy Or take an approved course 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 Cincinnati State Technical and Community College Credit**
ENT 135 Computer-Aided Drafting	MET 131 CAD I
CSE 153 Introduction to C/C++ Programming or similar course	SET 151 C Programming or IT 101 .Net Programming I or IT 105 Visual Basic or similar course
ENT 137 Introduction to Engineering Technology	MET 100 Introduction to Engineering Technology
ENT 151 Engineering Materials	MET 140 Engineering Materials
ENT 152 Computer Aided Manufacturing I	MET 111 Manufacturing Processes I
ENT 192 Circuit Analysis I (3) [OET001 DC Circuits]	EET 131 Circuit Analysis I
ENT 235 Computer Aided Design	MET 132 CAD II
ENT 252 Computer Aided Manufacturing II	MET 112 Manufacturing Processes II
ENT 271 Mechanics I – Statics [OET007 Statics]	MET 150 Statics & Strength of Materials
ENT 272 Strength of Materials	Take from Miami
ENT 278 Mechanics III: Analysis of Machine Components	MET 250 Machine Design

Technical Electives Take ONE of the following technical electives from Miami: ENT313 - Introduction to Robotics ENT311 - Process Control Interface Design ENT413 - Industrial Robotics Lab ENT296 - Programmable Logic Controllers	Take from Miami
MTH 245 Differential Equations	Take from Miami
STA 261 or STA 301 Applied Statistics ***	Take from Miami
ENT 301 Dynamics ***	Take from Miami
ENT 310 Fluid Mechanics	Take from Miami
ENT 312 Thermodynamics and Heat Power	MET 260 Applied Thermodynamics
ENT 314 Mechanisms for Mechanical Design	Take from Miami
ENT 316 Project Management	Take from Miami
ENT 355 Introduction to Finite Element Analysis	Take from Miami
ENT 404 Experimentation Techniques	Take from Miami
ENT 415 Heat Transfer with Applications	Take from Miami
ENT 478 Product Development	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

1. When applying to Miami University Regionals, please apply early for best course availability. For fall applicants, we suggest applying in spring semester.
2. Application Deadlines: Fall Admission – Aug. 1. Spring Admission – Jan. 1.
3. Transfer Scholarship Deadlines: Fall Admission – June 1. Spring Admission – Dec. 1. See the Miami Regionals scholarship page for more information: [MiamiOH.edu/Regionals/Scholarships](http://MiamiOH.edu/Regionals/Scholarships)

### Link to Miami degree program

[MiamiOH.edu/Regionals/ENT](http://MiamiOH.edu/Regionals/ENT)

### Miami Contact Name and Information:

Sarah Wooten [sarah.wooten@MiamiOH.edu](mailto:sarah.wooten@MiamiOH.edu), 513-785-1977, Distance Coordinator  
Professor Rob Speckert [speckere@MiamiOH.edu](mailto:speckere@MiamiOH.edu), 513-785-1810, Chief Departmental Advisor

### Cincinnati State Technical and Community College Contact Information:

Larry Feist: [lawrence.feist@cincinnatiastate.edu](mailto:lawrence.feist@cincinnatiastate.edu) 513-569-1428