

Miami University
 Department of Engineering Technology
 Bachelor of Science in Applied Science—Completion Program
Major: Electro-Mechanical Engineering Technology
Cincinnati State Technical and Community College
 Revised: May 19, 2009

This Bachelor of Science in Applied Science Completion Program is designed for students who have completed an associate degree in Electrical, Mechanical, Electro-Mechanical or similarly titled engineering technology programs. 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 www.ent.muohio.edu -- then click on distance learning.

Students entering this program must meet all Miami University admission requirements available at www.miami.muohio.edu 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. All credits earned with a grade of C or better will be transferred to Miami. (Note—Miami is on semesters. This means 3 quarter credits transfer as 2 semester credits, 4 quarter credits transfer as 2.6 semester credits, and 5 quarter credits transfer as 3.3 semester credits.) In addition, students must meet the general requirements for graduation from Miami which include a minimum of 32 credit hours taken from Miami and 12 of the last 20 credit hours must be taken from Miami.

- 1. Complete your associate degree in Electrical/Electronics, Mechanical, Electro-Mechanical, Power Systems or similarly titled Engineering Technology program at your current college.**
- 2. Complete the Ohio Transfer Module at your institution. This Module is available at www.transfer.org; click on Ohio; click on Guest Login; click on Academic Programs; click on your college's name; click on or find Ohio Transfer Module. Have the registrar at your college stamp your transcript: "Ohio Transfer Module Complete". 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**

Miami Engineering Technology Requirements:	Take these at Cincinnati State:
One year of Freshman English (ENG 111, 112)	ENG 1001*, 1002*, and 1003*
ENG 215 Technical Writing	ENG 1010* or 1015*
COM 135 Public Speaking	SPE 1020 or 1022
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECO 1512* or ECO 1513*
Visual BASIC, C Programming, or similar course	MET 7125 or equivalent
MTH 125 Precalculus	MAT 1191, 1192*
MTH 151 (Calculus I), MTH 251 (Calculus II)	MAT 1154* and 1155* and 1156*
One year of Physics with lab (PHY 171, 172, 183, 184)	PHY 2291* and 2292* and 2293*
A Chemistry Course with lab (CHM 141, 144)	CHE 2251* and 2252* (other CHM courses may apply)

4. Complete all Engineering Technology (ENT) core courses, Miami Plan Thematic Sequence (MPT) courses, and Miami Plan Capstone courses (MPC).

Miami Requirements:	Where taken?
ENT Core courses (32 semester hours minimum), including	Cincinnati State:
ENT 135 Computer-Aided Drafting (3)	MET 7108 Autocad
ENT 151 Engineering Materials (3)	MET 7111 Engineering Materials
ENT 192 Circuit Analysis (3)	EET 7710,7720 DC,AC Circuit Anal. w/labs
ENT 196 Electronics (3)	EET 7730 Electronics
ENT 271 Mechanics I: Statics (3)	MET 7130 Statics
ENT 272 Strength of Materials (3)	MET 7140 Strength of Materials
ENT 293 Digital Switching (3)	CPET 7728 Digital Logic
ENT 301 Dynamics (3)	Take from Miami
ENT 310 Fluid Mechanics (3)	Take from Miami
ENT 311 Process Control Interface Design (3)	Take from Miami
ENT 316 Project Management	Take from Miami
ENT 401 Computerized Instrumentation (3)	Take from Miami
ENT 402 Industrial Automation Lab (3)	Take from Miami
ENT 407 Modern Manufacturing Systems (3)	Take from Miami
ENT 418 Electromechanical Control Systems (3)	Take from Miami
ENT 497,498 Senior Design I, II (2, 2) meets MPC requirement.	Take from Miami
MTH 231 Discrete Math meets MPT requirement	Take from Miami
STA 301 Statistics meets MPT requirement	Take from Miami

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- 1. Complete your associate degree in Mechanical Engineering Technology.**
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COM 135 Public Speaking	SPE 1020 or 1022
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECO 1512* or ECO 1513*
Visual BASIC, C Programming, or similar course	MET 7125 or equivalent
MTH 125 Precalculus	MAT 1191, 1192*
MTH 151 (Calculus I), MTH 251 (Calculus II)	MAT 1154* and 1155* and 1156*
One year of Physics with lab (PHY 171, 172, 183, 184)	PHY 2291*, 2292*, and 2293*
A Chemistry Course with lab (CHM 141, 144)	CHE 2251* and 2252* (other CHM courses may apply)

4. Complete all Engineering Technology (ENT) core courses, Miami Plan Thematic Sequence (MPT) courses, and Miami Plan Capstone courses (MPC).

Miami Requirements:	Take these at CSCTC or at Miami:
ENT 137 Introduction to Engineering Technology	ET 9400 (2) at CSCTC
ENT 135 Computer Aided Drafting (3)	MET 7110, 7120, and 7122 or MET 7008, 7110, 7120, 7121
ENT 235 Computer Aided Design (3)	
ENT 151 Engineering Materials (3)	MET 7111, 7310, 7198, and 7158 or MET 7310, 7220, 7320, and 7330
ENT 152 Computer Aided Manufacturing I (3)	
ENT 252 Computer Aided Manufacturing II (3)	
ENT 192 Circuit Analysis I (3)	MET 7733 or equivalent or take from Miami
ENT 271 Mechanics I: Statics (3)	MET 7130, 7140, 7150, and 7155 or MET 7145, 7230, 7346, and 7355
ENT 272 Mechanics II: Strength of Materials (3)	
ENT 278 Mechanics III: Analysis of Machine Components (3)	
ENT 301 Dynamics (3)	
ENT 301 Dynamics (3)	Take from Miami
ENT 310 Fluid Mechanics (3)	Take from Miami
ENT 312 Thermodynamics (3)	MET 7148 at CSCTC or take from Miami
ENT 314 Mechanisms for Mechanical Design (3)	Take from Miami
ENT 333 Computational Methods for Engineering Technology (4)	Take from Miami
ENT 355 Introduction to Finite Element Analysis (3)	Take from Miami
ENT 415 Heat Transfer w/Applications (3)	Take from Miami
ENT 416 Topics in Mechanical Vibrations (3)	Take from Miami
ENT 497,498 Senior Design I, II (2, 2) also meets MPC requirement	Take from Miami
ENT electives (300-400 level) as needed	Take from Miami
STA 368 Statistics meets MPT requirement	Take from Miami