

Miami University
 Department of Engineering Technology
 Bachelor of Science in Applied Science—Completion Program
B.S. Concentration: Electro-Mechanical Engineering Technology
Cuyahoga Community College
For students entering Fall 2006 and after
 A.A.S. Mechanical or Electrical/Electronics Engineering Technology
 Updated October 26, 2006

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 the associate degree. Miami is on semesters. 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 the Mechanical or Electrical Engineering Technology program from Cuyahoga Community.**
2. **Complete the Ohio Transfer Module at your institution. This Module is available at**

<http://www.tri-c.edu/catalog/0507/appendices/docs/II/default.htm>

Advising for this module is available at your college.

3. **Complete general education requirements specified by the Engineering Technology (ENT) department. (most are included in the Ohio Transfer Module)**

Miami Engineering Technology Requirements:	Take these at Cuyahoga Community College:
One year of Freshman English (ENG 111, 112)	ENG 1010,1020
ENG 215 Technical Writing	ENG 2150
COM 135 Public Speaking or COM 136 Interpersonal Communication	SPCH 1000 OR SPCH 1010
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECON 2610 OR 2620
Visual BASIC, C++ Programming, or similar course	ITMP 2620 or 2670
MTH 125 Precalculus	MATH 1580
MTH 151 (Calculus I), MTH 251 (Calculus II)	MATH 1610,1620
One year of Physics with lab (PHY 171, 172, 183, 184)	PHYS 1210,1220 OR PHYS 2310,2320
A Chemistry Course with lab (CHM 141, 144,)	CHEM 1300,130L OR PCSI 1020,120L

4. As part of the junior and senior year, 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 those listed below. You should have taken some of these in your associate degree program. You can complete the remaining courses while taking the required Miami courses.	Take from Cuyahoga Community College except as noted.
ENT 135 Computer-Aided Drafting (3)	MIT 1220 Introduction to AutoCAD (2)
ENT 151 Engineering Materials (3)	MIT1250 Materials and Machine Tools (3)
ENT 192 Circuit Analysis (3)	EET1110 DC Circuits (3)
ENT 196 Electronics (3)	EET1130 Basic Audio Electronics OR EET-2120 Electronics I OR equivalent electronics course
ENT 271 Mechanics I: Statics (3)	MET1600 Technical Statics (3)
ENT 272 Strength of Materials (3)	MET2200 Strength of Materials (3)
ENT 291 Industrial Electronics (3)*	EET 1240 Digital Circuits/ Microprocessors (3)*
ENT 296 Programmable Controllers (3)*	EET 2520 Programmable Logic Controllers (3)*
The Miami Courses are taken at Cuyahoga Community College via Interactive Video or web.	
ENT 301 Dynamics (3)	Take from Miami
ENT 311 Process Control Interface Design (3)	Take from Miami
ENT 310 Fluid Mechanics (3)	Take from Miami
ENT 316 Project Management (3)	Take from Miami
ENT 401 Computerized Instrumentation (3)	Take from Miami
ENT 412 Industrial Applications of Neural Networks and Fuzzy Logic (3)	Take from Miami
ENT 418 Electromechanical Control Systems (3)	Take from Miami
ENT 470 Advanced Topics in Engineering Technology	Take from Miami
ENT 497,498 Senior Design I,II (2,2) also meets MPC requirement.	Take from Miami
STA 301 Applied Statistics (3) meets MPT (Thematic Sequence) requirement	Take from Miami
MTH 231 Discrete Math (3) meets MPT (Thematic Sequence) requirement	Take from Miami

* Note: Subjects included in Miami courses ENT 291+296 are covered in CCC courses EET 1240+2520.