

**Miami University**  
 Department of Engineering Technology  
 Bachelor of Science in Applied Science—Completion Program  
**Major: Electro-Mechanical Engineering Technology**  
**Terra Community College**  
 Updated: November 23, 2008

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](http://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](http://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 (all areas), Robotics/Integrated Manufacturing, Manufacturing, or a 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](http://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)**

<b>Miami Engineering Technology Requirements:</b>	<b>Take these at Terra Community College:</b>
One year of Freshman English (ENG 111, 112)	ENG 1050*, ENG 1060*
ENG 215 Technical Writing	ENG 1900
COM 135 Public Speaking or COM 136 Interpersonal Communication	SPE 2010
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECO 2010* or 2020*
Visual BASIC, C Programming, or similar course	CIT 1210 or similar
MTH 125 Precalculus	MTH 2350*
MTH 151 (Calculus I), MTH 251 (Calculus II)	MTH2510*, MTH 2520*
One year of Physics with lab (PHY 171, 172, 183, 184)	PHY 1310* and PHY 1315*, PHY1320* and PHY 1325*
A Chemistry Course with lab (CHM 141, 144,)	CHM 1010* and CHM 1015*

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

<b>Miami Requirements:</b>	<b>Where taken?</b>
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 Terra Community College except as noted.
ENT 135 Computer-Aided Drafting (3)	CAD 1110 CAD 1
ENT 151 Engineering Materials (3)	WET 1030 Applied Metallurgy or MET 1080
ENT 192 Circuit Analysis (3)	EET 1050 Electricity I or EET 1700 DC Circuits and EET 1710 AC Circuits
ENT 196 Electronics (3)	EET 1360 Power Electronics or EET1720 Electronics
ENT 271 Mechanics I: Statics (3)	MET 2110 Statics
ENT 272 Strength of Materials (3)	MET 2150 Strength of Materials
ENT 291 Industrial Electronics (3)	EET 2400 Motor Controls
ENT 296 Programmable Controllers (3)	EET 2440 Programmable Controllers I
<b>The Miami Courses are taken at Terra Community College via Interactive Video or web.</b>	
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 407 Modern Manufacturing Systems (3)	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