

**Miami University**  
 Department of Engineering Technology  
 Bachelor of Science in Applied Science—Completion Program  
**Major: Electro-Mechanical Engineering Technology**  
**North Central State 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](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/Electronic, Mechanical, Electro-Mechanical 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](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 North Central State:</b>
One year of Freshman English (ENG 111, 112)	ENG 101* and 114*,
ENG 215 Technical Writing	ENG 210 or (ENG 201 or ENG 202)
COM 135 Public Speaking or COM 136 Interpersonal Comm.	SPE 101 or 105
ECO 201 Microeconomics or ECO 202 Macroeconomics or a combined course	ECN 101*
Visual BASIC, C Programming, or similar course	ENR 101
MTH 123 Precalculus	MATH 121 and 122 and 123
MTH 151 (Calculus I), MTH 251 (Calculus II)	MATH 141* and 142* and 143*
One year of Physics with lab (PHY 171, 172, 183, 184)	PHY 111 and 112 and 113
A Chemistry Course with lab (e.g., CHM 141/144)	CHE 110*

**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 North Central State College except as noted.
ENT 135 Computer Aided Drafting	DRD 215 Computer Aided Design
ENT 151 Engineering Materials	MEC 223 Engineering Materials
ENT 192 Circuit Analysis	ELE 151 DC Electricity
ENT 196 Basic Electronics	ELE 245 Electronics
ENT 271 Statics	MEC 233 Statics
ENT 272 Strength of Materials	MEC 244 Strength of Materials
ENT 293 Digital Switching	ELE 153 Digital Principles
<b>These Miami Courses are taken at North Central State College via Interactive Video (IVDL) or web</b>	
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	Take from Miami
ENT 418 Electromechanical Control Systems (3)	Take from Miami
ENT 497,498 Senior Design I,II (2,2) also meets MPC requirement.	Take from Miami
MTH 231 Discrete Math or MTH 222 Linear Algebra meets MPT requirement	Take from Miami
STA 301 Statistics meets MPT requirement	Take from Miami