Miami University

Department of Engineering Technology
Bachelor of Science in Applied Science—Completion Program

Major: Electro-Mechanical Engineering Technology

For students entering Fall 2006 and after

Shawnee State University

Revised Aug. 28, 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, 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; 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 Shawnee State University:
One year of Freshman English (ENG 111, 112)	ENGL 111* and 112* and 115*
ENG 215 Technical Writing	ENGL 121
COM 135 Public Speaking	SPCH 103
ECO 202 Macroeconomics	ECON 202
Visual BASIC, C Programming, or similar course	ETCO 115
MTH 125 Precalculus	MATH 131* and 132*
MTH 151 (Calculus I), MTH 251 (Calculus II)	MATH 201* and 202 and 203
One year of Physics with lab (PHY 171, 172, 183, 184)	PHYS 201* and 202 and 203
A Chemistry Course with lab (CHM 141, 144) or CHM 131	CHEM 141* and 142 or CHEM 121*

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:	**Shawnee State:**
ENT 135 Computer-Aided Drafting (3)	ETEM 130 Electrom. Drawing
ENT 151 Engineering Materials (3)	ETMA 140 Machine Tools
ENT 192 Circuit Analysis (3)	ETEM 111 DC Circuits ETEM 112 AC Circuits
ENT 196 Electronics (3)	ETEM 121 Electronics 1
ENT 271 Mechanics I: Statics (3)	ETCO 202 Statics/Strengths
ENT 272 Strength of Materials (3)	ETCO 202 Statics/Strengths
ENT 291 Industrial Electronics (3)	ETEM 211 Electronic Logic
ENT 296 Programmable Controllers (3)	ETEM 208 Automation Fund.
Take the following at Miami:	
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