

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
James A. Rhodes State College
Updated: September 21, 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 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 James A. Rhodes State College or Ohio State University-Lima:
One year of Freshman English (ENG 111, 112)	COM 111 and 311
ENG 215 Technical Writing	COM 114*
COM 135 Public Speaking	COM 211
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECN 141 or 143
Visual BASIC, C Programming, or similar course	CPT 112
MTH 125 Precalculus	MTH 121 and 122
MTH 151 (Calculus I), MTH 251 (Calculus II)	MTH 123* and 161 and 262
One year of Physics with lab (PHY 171, 172, 183, 184)	BET 112 and 113 and 114
A Chemistry Course with lab (e.g., CHM 131 or CHM 141,	CHM 136 or CHM 101 and 102 (OSU) (may

144)	only need one)
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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 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 Rhodes except as noted.
ENT 135 Computer-Aided Drafting (3)	MED 100 or MED 102 CAD
ENT 151 Engineering Materials (3)	MET 102 Materials Science
ENT 192 Circuit Analysis (3)	EET 112,113 or EET 292 Elect.-Electron. Sys.
ENT 196 Electronics (3)	EET 112,113 or EET 292 Elect.-Electron. Sys.
ENT 271 Mechanics I: Statics (3)	MET 113 Statics
ENT 272 Strength of Materials (3)	MET 221 Strength of Materials
ENT 291 Industrial Electronics (3)	EET 133 Digital Circuits and EET 231 Microprocessor Fund.
ENT 296 Programmable Controllers (3)	EET 291 Programmable Controllers
The Miami Courses are taken at Rhodes 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	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