

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
Columbus State Community College

Updated 2/15/07

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.ham.muohio.edu/ent -- 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 Columbus State Community College:
One year of Freshman English (ENG 111, 112)	ENGL 101* and 102* and 250*
ENG 215 Technical Writing	ENGL 204
COM 135 Public Speaking or COM 136 Interpersonal Communication	COMM 105
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECON 200* or 240*
Visual BASIC, C Programming, or similar course	MECH 252 or CPT 251 or CPT 155
MTH 125 Precalculus	MATH 111 and 112 and 113 (or equivalent)

MTH 151 (Calculus I), MTH 251 (Calculus II)	MATH 151* and 152* and 153*
One year of Physics with lab (PHY 171, 172, 183, 184)	PHYS 117* and 118* and 119* (PHY18x fulfills one or two of these)
A Chemistry Course with lab (CHM 141, 144,)	CHEM elective chosen from Ohio Transfer Module

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: ENT 135 Computer Aided Drafting ENT 192 Circuit Analysis ENT 196 Basic Electronics ENT 291 Industrial Electronics ENT 296 Programmable Controllers ENT 151 Engineering Materials ENT 271 Statics ENT 272 Strength of Materials	Columbus State: EET 110 or MECH 251 CAD EET 101 or EET 111,112 Circuit Analysis EET 102 or EET 130 Electronics EET 102 or EET 132 Digital Electronics And EMEC 250 Motors and Controls EMEC 251 EM Controls I EMEC 261 EM Controls II MECH 111 Manufacturing. Processes MECH 130 Statics MECH 242 Strength of Materials
ENT IVDL Courses	
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 Statistics meets MPT requirement	Take from Miami
MTH 231 Discrete Math meets MPT requirement	Take from Miami