

Miami University
Department of Engineering Technology
Bachelor of Science in Applied Science—Completion Program
Major: Electro-Mechanical Engineering Technology
For students entering Fall 2009 and after
Columbus State Community College
Updated October 1, 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 <http://www.eas.muohio.edu/departments/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. At Columbus State, run a “What If” degree audit in CougarWeb to determine what classes you need. Follow these steps:**
 - a. **Log into CougarWeb.**
 - b. **Click on “Degree Audit”**
 - c. **Check the radio button titled “Run a ‘What If’ Audit”**
 - d. **Click the drop-down menu titled “Degrees/Certificates” and select “Certs”**
 - e. **Click the drop-down menu titled “Program Name” and select “Ohio Transfer Module (OHIO.TM)”**
 - f. **Click the button “Submit a New Audit”**
 - g. **Click the button “Open Audit” next to the Webtitle “Ohio Transfer Module”**
 - h. **Advising for this module is available at Columbus State and the advisor names are listed on the Ohio Transfer Module degree audit.**

3. Complete general education requirements specified by the Engineering Technology (ENT) department. (*Included in the Ohio Transfer Module)

Miami Engineering Technology Requirements:	Take at Columbus State Community College:
One year of Freshman English (ENG 111, 112)	ENGL 101* and 102* and 250*
ENG 215 Technical Writing	COMM 204 Technical Writing
COM 135 Public Speaking or COM 136 Interpersonal Communication	COMM 105 Speech or COMM 110 Conference and Group Discussion
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECON 200* Microeconomics or ECON 240* Macroeconomics
Visual BASIC or C Programming or Similar course	CIT 163 Visual Basic 1 or CIT 167 C++ Programming 1 or MECH 252 Computer Programming for Tech.
MTH 125 Precalculus	MATH 148* College Algebra AND MATH 150* Pre-Calculus
MTH 151 (Calculus I) AND MTH 251 (Calculus II)	MATH 151* Calculus/Analytic Geometry I and MATH 152* Calculus/Analytic Geometry II and MATH 153* Calculus/Analytic Geometry III
One year of Physics with lab (PHY 171, 172, 183, 184)	PHYS 117* and 118* and 119*
A Chemistry Course with lab (CHM 141, 144,)	CHEM elective chosen from Ohio Trans.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):	Columbus State:
ENT 135 Computer Aided Drafting	EET 110 or MECH 145 2D CAD
ENT 151 Engineering Materials	MECH 150 Mfg. Materials and Processes
ENT 192 Circuit Analysis	EET 105 Basic Electronic Systems
ENT 196 Electronics	EET 125 Electronic Switching Systems
ENT 271 Statics	MECH 130 Statics
ENT 272 Strength of Materials	MECH 242 Strength of Materials
ENT 293 Digital Switching	EET 115 Basic Digital Systems
The following Miami Courses are taken at Columbus State via Interactive Video (IVDL) or web	
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) also 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