

Miami University
 Department of Engineering Technology
 Bachelor of Science in Applied Science—Completion Program
Major: Electro-Mechanical Engineering Technology
For students in Automation & Control Technology or
Electronics Engineering Technology at
Sinclair Community 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 Automation & Control Technology, Electronics Engineering Technology, 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. (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 Automation & Control Technology, Electronics Engineering Technology 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 Sinclair:
One year of Freshman English (ENG 111, 112)	ENG 111* and 112* and 113*
ENG 215 Technical Writing	ENG 131 or 132
COM 135 Public Speaking or COM 136 Interpersonal Communication	COM 211* or COM 206
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECO 216* or ECO 218*
Visual BASIC, C Programming, or similar course	EGR 261 or equivalent
MTH 123 Precalculus	MAT 117*
MTH 151 (Calculus I), MTH 251 (Calculus II)	MAT 201* and 202* and 203*
One year of Physics with lab (PHY 171, 172, 183, 184)	PHY 141* and 142* and 143* or PHY 131* and 132* and 133*
A Chemistry Course with lab (CHM 137141/, 144)	CHE 151* and CHE 152*

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.	Sinclair
ENT 135 Computer-Aided Drafting (3)	ETD 199 or EET 116 CAD
ENT 151 Engineering Materials (3)	OPT 132 Metallurgy
ENT 192 Circuit Analysis (3)	EET 150,155 DC, AC Circuits
ENT 196 Electronics (3)	EET 201 Semiconductor Devices
ENT 271 Mechanics I: Statics (3)	ETD 213 Statics
ENT 272 Strength of Materials (3)	ETD 222 Strength of Materials
ENT 293 Digital Switching (3)	EET 114, 116, 131 Digital Logic+Prereqs
The Miami Courses are taken at Sinclair via Interactive Video or web.	
ENT 301 Dynamics (3)	Take from Miami
ENT 310 Fluid Mechanics (3)	HVA 286 with 'B' or better or take from Miami
ENT 311 Process Control Interface Design (3)	Take from Miami
ENT 316 Project Management (3)	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 Applied Statistics (3) meets MPT (Thematic Sequence) requirement	Take from Miami