

Miami University
 Department of Engineering Technology
 Bachelor of Science in Applied Science—Completion Program
Major: Electro-Mechanical Engineering Technology
Edison 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 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 (Electronics), Mechanical, Electro-Mechanical (Automation and Control) 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 Edison:
One year of Freshman English (ENG 111, 112)	ENG 111* and 112* and 113*
ENG 215 Technical Writing	ENG 121 and 122 or ENG 131 and 132
COM 135 Public Speaking or COM 136 Interpersonal Comm.	COM 211 or COM 206
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECO 201* and 202* or ECO 202* and 203*
Visual BASIC, C Programming, or similar course	CIT 225S Visual Basic Programming or CIT 222S Intro to Prog using C ++
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*
A Chemistry Course with lab (CHM 137141/, 144)	CHE 141* and 142* or 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):	Edison State:
ENT 135 Computer Aided Drafting	EET 110 or MECH 251 CAD
ENT 151 Engineering Materials	MECH 111 Manufacturing Processes
ENT 192 Circuit Analysis	EET 105 Basic Electronic Systems
ENT 196 Electronics	EET 125 Electronic Switching
ENT 271 Statics	MECH 130 Statics
ENT 272 Strength of Materials	MECH 242 Strength of Materials
ENT 293 Digital Switching	EET 115 Digital Systems
The Miami Courses are taken at Edison via Interactive Video or web.	
ENT 301 Dynamics (3)	Take from Miami
ENT 311 Process Control Interface Design (3)	Take from Miami
ENT 316 Project Management (3)	Take from Miami
ENT 310 Fluid Mechanics (3)	Take from Miami
ENT 401 Computerized Instrumentation (3)	Take from Miami
ENT 402 Industrial Automation Lab	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

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1. **Complete your associate degree in Mechanical Engineering Technology program at your current college.**
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Visual BASIC, C Programming, or similar course	CIT 225S Visual Basic Programming or CIT 222S Intro to Prog using C ++
MTH 125 Precalculus	MATH 133
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)	PHY 141* and 142* and 143*
A Chemistry Course with lab (CHM 137, 144)	CHE 141* and 142* or 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:	Take these at Edison:
ENT 135 Computer Aided Drafting (3)	MET 130S and MET 230S AutoCAD I and II
ENT 137 Introduction to Engineering Technology (1)	MET 104
ENT 151 Engineering Materials (3)	MFG 120S Materials Tech.
ENT 152 Computer Aided Manufacturing I (3)	MFG 114S Survey of Mfg
ENT 192 Circuit Analysis I (3)	ELT 111S and 112S DC and AC Circuits.
ENT 235 Computer Aided Design (3)	MET 241S and MET 243S Pro-E
ENT 252 Computer Aided Manufacturing II (3)	
ENT 271 Mechanics I: Statics (3) ENT 272 Mechanics II: Strength of Materials (3) ENT 278 Mechanics III: Analysis of Machine Components (3)	Take all of these MET 125S, 212S, 225S Statics, Strength of Materials, and Mach. Design
The Miami Courses are taken at Edison via Interactive Video or web.	
ENT 301 Dynamics (3)	Take from Miami
ENT 310 Fluid Mechanics (3)	Take from Miami
ENT 312 Thermodynamics (3)	Take from Miami.
ENT 314 Mechanisms for Mechanical Design (3)	Take from Miami
ENT 316 Project Management (3)	Take from Miami
ENT 333 Computational Methods for Engineering Technology (4)	Take from Miami
ENT 355 Introduction to Finite Element Analysis (3)	Take from Miami
ENT 404 Experimentation Techniques (3)	Take from Miami
ENT 415 Heat Transfer w/Applications (3)	Take from Miami
ENT 416 Topics in Mechanical Vibrations (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