

Miami University
 Department of Engineering Technology
 Bachelor of Science in Applied Science—Completion Program
Major: Electro-Mechanical Engineering Technology
Southern State Community College
Updated: December 4, 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 Drafting Design, Computer Assisted Design, or Electrical/Electronics 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 Southern State:
One year of Freshman English (ENG 111, 112)	ENGL 101*, ENGL 102*, ENGL 103*
ENG 215 Technical Writing	ENGL 205
COM 135 Public Speaking or COM 136 Interpersonal Communication	SPTH 115*
ECO 201 Microeconomics or ECO 202 Macroeconomics	ECON 205* or ECON 206*
Visual BASIC, C Programming, or similar course	CSCI 203, CSCI 204, or CSCI 260
MTH 123 Precalculus	MATH 141*
MTH 151 (Calculus I), MTH 251 (Calculus II)	MATH 221* and 222* and 223*
One year of Physics with lab (PHY 171, 172, 183, 184)	PHYS 201* and 202* and 203* with labs or PHYS 221* and 222* and 223* with labs
A Chemistry Course with lab (CHM 137/141/, 144)	CHEM 101* and CHEM 111* lab

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 SSCC except as noted.
ENT 135 Computer-Aided Drafting (3)	ENDS 230 and ENDS 231
ENT 151 Engineering Materials (3)	ENDS 203
ENT 192 Circuit Analysis I (3)	EENG 105
ENT 196 Electronics (3)	EENG 215
ENT 271 Mechanics I: Statics (3)	ENDS 201
ENT 272 Strength of Materials (3)	ENDS 203
ENT 291 Industrial Electronics (3)	EENG 203
ENT 296 Programmable Controllers (3)	EENG 207
The Miami Courses are taken at SSCC via Interactive Video or web or at Miami Hamilton/Middletown	
ENT 301 Dynamics (3)	ENDS 202 at SSCC
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 (3) meets MPT requirement	Take from Miami
MTH 231 Discrete Math (3) meets MPT requirement	Take from Miami

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MTH 125 Precalculus	MATH 141*
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A Chemistry Course with lab (CHM 137, 144)	CHEM 101* and CHEM 111* lab

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 Southern State:
ENT 137 Introduction to Engineering Technology (1)	ENDS 100
ENT 135 Computer Aided Drafting (3)	ENDS 230 and ENDS 231
ENT 235 Computer Aided Design (3)	ENDS 232
ENT 151 Engineering Materials (3)	ENDS 203
ENT 152 Computer Aided Manufacturing I (3)	ENDS 233
ENT 252 Computer Aided Manufacturing II (3)	Take at Miami
ENT 192 Circuit Analysis I (3)	EENG 105
ENT 271 Mechanics I: Statics (3)	ENDS 201
ENT 272 Mechanics II: Strength of Materials (3)	ENDS 203
ENT 278 Mechanics III: Analysis of Machine Components (3)	ENDS 221
ENT 301 Dynamics (3)	ENDS 202
ENT 310 Fluid Mechanics (3)	Take at Miami
ENT 312 Thermodynamics (3)	Take at Miami
ENT 314 Mechanisms for Mechanical Design (3)	ENDS 204
ENT 316 Project Management (3)	Take at Miami
ENT 333 Computational Methods for Engineering Technology (4)	Take at Miami
ENT 355 Introduction to Finite Element Analysis (3)	Take at Miami
ENT 415 Heat Transfer w/Applications (3)	Take at Miami
ENT 416 Topics in Mechanical Vibrations (3)	Take at Miami
ENT 497,498 Senior Design I, II (2, 2) also meets MPC requirement	Take at Miami
ENT 404 Experimentation Techniques (3)	Take at Miami
STA 301 Statistics meets MPT requirement	Take at Miami
MTH 231 Discrete Math meets MPT requirement	Take at Miami

Note: This program is NOT offered by distance learning. You must attend Miami Hamilton or Middletown to complete many of these courses.