

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
Washington State Community College
 Revised: May 19, 2000

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 published 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 Washington State Community College: |
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| One year of Freshman English (ENG 111, 112) | ENGL 151* and 152* and 153* |
| ENG 215 Technical Writing | ENGL 115* |
| COM 135 Public Speaking or COM 136 Interpersonal Communication | SPCH 151 or SPCH 206 |
| ECO 201 Microeconomics or ECO 202 Macroeconomics | ECON 212* or 213* |
| Visual BASIC, C Programming, or similar course | CSTL 221 or CSTL 222 |
| MTH 125 Pre-Calculus | MATH 112* and 113* or MATH 115* |
| MTH 151-251 Calculus I, II | MATH 263* and 264* and 265* |
| One year of Physics with lab (PHY 171, 172, 183, 184) | PHYS 201* and 202* and 203* |
| A Chemistry Course with lab (CHM 141, 144) | CHEM 121* and CHEM 122* |

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: | Washington State: |
| ENT 135 Computer-Aided Drafting (3) | DRFT 120 CAD |
| ENT 151 Engineering Materials (3) | MECH 110 Engineering Mat. |
| ENT 192 Circuit Analysis (3) | ELET 111 DC Fundamentals and ELET 112 AC Fundamentals |
| ENT 196 Electronics (3) | ELET 221 Electronics I or INDT 131 Electricity & Electronics |
| ENT 271 Mechanics I: Statics (3) | ENGR 221 Statics |
| ENT 272 Strength of Materials (3) | ENGR 222 Strength of Materials |
| ENT 291 Industrial Electronics (3) | ELET 131 Digital Controls I |
| The Miami Courses are taken at Washington 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) 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 |