Electromechanical Engineering Technology Course Flow (revised 04/18/19)

Generic Flowchart for Bachelors Completion Degree Program

Freshman and Sophomore Years

Complete your Associate Degree in Electrical/Electronics, Mechanical, Electromechanical, Power Systems or Similar Engineering Technology Programs

*Transfer students must also complete the Ohio Transfer Module (OTM) at their institution. The OTM is available on the OhioHigherEd website HERE. **Students must also complete an approved “Intercultural Perspectives” course. This is not included in OTM.

Electromechanical Engineering Technology Bachelors Completion Degree Program Requirements:

You must clear the ENT Core courses including those listed below. Students must meet the general requirements for graduation from Miami which include a minimum of 30 credit hours taken from Miami and 12 of the last 30 credit hours must be taken from Miami. You should have taken some of these in your associate degree program. You can complete the remaining courses while taking required Miami courses. [Ohio Higher Ed TAG Numbers]

- ECO 201 or 202 Macro- or Micro-economics
- CHM 141 and 144 College Chemistry and Lab
- MTH 151 and 251 Calculus I and II
- CSE 153 or CSE 163 C++ Programming or Visual Basic
- ENT 135 Computer-Aided Drafting [OET012 Computer Aided Design]
- ENT 192 Circuit Analysis I [OET001 DC Circuits]
- ENT 193 Circuit Analysis II [OET003 AC Circuits]
- ENT 196 Electronics [OET005 Electronics]
- ENT 271 Mechanics I: Statics [OET007 Statics]
- ENT 272 Strength of Materials [OET008 Strength of Materials]
- ENT 293 Digital Systems

*See Your School’s Articulation Agreement for equivalency information and full requirements.

Junior Year

Fall

ENT 301 Dynamics
MTH 151, ENT 271

ENT 311 Process Control Interface Design
ENT 193, CSE 153 or 163

Spring

ENT 310 Fluid Mechanics
MTH 151, ENT 271

ENT 316 Project Management
Co-Req: STA 261 or STA 301
Pre-req: ECON 201 or 202

Senior Year

Fall

ENT 401 Computerized Instrumentation
MTH 151 and ENT 311

ENT 418 Electro-mech. Control Systems
MTH 245 or ENT 333, ENT 301, ENT 401

Spring

ENT 497 Senior Design Project I
Senior Standing, ENT 316, 3-300/400 Level ENT courses

ENT 402 Industrial Automation
ENT 311

ENT 498 Senior Design Project II
ENT 497

Intercultural Perspectives Elective
**3 Credit Hours Minimum, must be approved by Miami, can be taken anytime.

MTH 245 Differential Equations
(Meets MTH 2 Thematic Sequence Requirement)
MTH 245 → MTH 251

*Prerequisite courses are noted in red. Solid arrows note a prerequisite course.

Electromechanical Engineering Technology Program (EMET) Bachelors Degree Completion Program is accredited by the Engineering Technology Accreditation Commission (ETAC) of the Accreditation Board of Engineering and Technology (ABET), Baltimore, MD.