

# 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 151 Engineering Materials [OET013 Engineering Materials]
- 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

Spring

**ENT 301**  
Dynamics  
*MTH 151, ENT 271*

**ENT 310**  
Fluid Mechanics  
*MTH 151, ENT 271*

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

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

**STA 261**  
Statistics  
or **STA 301**  
Applied Statistics  
*(Meets MTH 2 Thematic Sequence Requirement)  
MTH 151 for STA 301*

**ENT 407**  
Modern Manufacturing Systems  
*ENT 151, ENT 272*

## Senior Year

Fall

Spring

**ENT 401**  
Computerized Instrumentation  
*MTH 151 and ENT 311*

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

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

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

**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.*

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