

ADVANCED MECHATRONICS ENGINEERING TECHNOLOGY - ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

IMPORTANT: Students can replace up to 15 credits from technical courses numbered 196 and above, except AMET 251 Industry Certifications with qualified technical classes taken elsewhere. Program-approved Equivalent Technical Credits may also be accepted. **Only State of Idaho approved Badges may qualify for Equivalent Technical Credits.** (Qualified technical classes and earned badges are subject to program approval.)

Explore More About This Program: <https://cwi.edu/program/advanced-mechatronics-engineering-technology>

Degree Plan: Fall or Spring Start

The course sequence listed below is strongly recommended in order to complete your program requirements. Many Career and Technical Education (CTE) courses have prerequisites and/or corequisites that have been accounted for within this Plan of Study Guide. Please register for your major requirements each semester as shown below using the Student Planning tool in myCWI. Consult your advisor for any questions regarding this plan.

NOTE: The required general education courses may be completed during any semester the student prefers, including summer semesters.

First Year

| Fall | | Credit Hours |
|--|----------------------------------|--------------|
| AMET 121 | DC Circuits and Application | 5 |
| AMET 131 | AC Circuits and Application | 5 |
| AMET 136 | Industrial Tools and Fabrication | 3 |
| <u>GEM 3 - Mathematical Ways of Knowing course</u> | | 3 |
| Total Semester Credit Hours | | 16 |
| Spring | | |
| AMET 141 | Analog Circuits and Application | 5 |
| AMET 151 | Digital Circuits and Application | 4 |
| AMET 196 | Fundamentals of Microcontrollers | 3 |
| <u>GEM 1 - Written Communication course</u> | | 3 |
| <u>GE Elective course</u> | | 3 |
| Total Semester Credit Hours | | 18 |

Second Year

| Fall | | |
|---|---|-----------|
| AMET 201 | Programmable Logic Controllers | 5 |
| AMET 221 | Industrial Automated Controls and Instrumentation | 4 |
| AMET 236 | Fluid Power Systems | 2 |
| AMET 241 | Industrial Communications | 4 |
| Total Semester Credit Hours | | 15 |
| Spring | | |
| AMET 231 | Industrial Robotics | 5 |
| AMET 251 | Industry Certifications | 2 |
| AMET 290 | Applied Mechatronics | 5 |
| <u>GEM 2 - Oral Communication course</u> | | 3 |
| <u>GEM 6 - Social & Behavioral Ways of Knowing course</u> | | 3 |
| Total Semester Credit Hours | | 18 |
| Minimum Credit Hours Required | | 67 |