

# MECHATRONICS TECHNOLOGY

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## Programs

- Mechatronics I Certificate in Applied Science (<https://catalog.gvltec.edu/school-advanced-manufacturing-transportation-technology/mechatronics-technology/mechatronics-i-certificate/>)
- Mechatronics II Certificate in Applied Science (<https://catalog.gvltec.edu/school-advanced-manufacturing-transportation-technology/mechatronics-technology/mechatronics-ii-certificate/>)
- Mechatronics Technology Associate in Applied Science (<https://catalog.gvltec.edu/school-advanced-manufacturing-transportation-technology/mechatronics-technology/mechatronics-technology-aas/>)

## Courses

### **MEC 130 Motor Controls (2-6-4)**

*Offered Fall and Spring Semesters*

Prerequisite: EEM 105 or EEM 117

This course is an introduction to the principles and applications of motor control circuits. A study of the various control devices and wiring used in industrial processes is also covered

### **MEC 299 Research in Advanced Mechatronics (0-12-4)**

*Offered Fall, Spring and Summer Semesters*

Prerequisites: Permission of instructor (students must also have completed AMT 205 and EEM 252 and have a GPA of 3.5 or higher)

This course provides an opportunity for students to investigate a faculty-approved topic in automated manufacturing disciplines using the application of practical research methods. The course is designed for students in an industrial manufacturing program to explore part of their major in more depth by working one-on-one or in small groups on faculty- or student-designed research projects with high-tech industrial manufacturing industry leaders.