Mission Statement:
The Mechatronics Level 2 Certificate builds on the Level 1 Certificate. The program will provide students with knowledge in the industrial automated manufacturing technology area. The student will develop basic foundational skills and understanding in electronics, robotics, motors, motor drives, and programmable logic controllers. In addition, basic troubleshooting strategies will be developed on an automated manufacturing line.

Entrance Requirements:
Acceptable placement test score(s); plus high school diploma or GED

Type of Program:
Day or evening

- This certificate further develops students completing Mechatronics I as well as advanced students already working in industry in areas such as, but not limited to, robotics, PLC and applications, sensors and controllers, troubleshooting, and process controls.
- This is a new interdisciplinary field involving control systems, electronic systems, computers, robotics, and mechanical systems. Students who successfully complete this course of study may be employed by high-tech industries.
- Courses taken in this certificate can be applied toward the associate degree program.
- This program requires a minimum grade of “C” in all concentration courses.

Recommended Program Schedule

**First Semester – Fall**

- AMT 205 Robotics & Automated Control II 3.0
- EEM 201 Electronic Devices I 3.0
- EEM 221 DC/AC Drives 3.0
- EEM 251 Programmable Controllers 3.0

**Second Semester – Spring**

- EEM 252 Programmable Controllers Applications 3.0
- IMT 170 Statistical Process Control 3.0
- WLD 108 Gas Metal Arc Welding I 4.0

**Third Semester – Summer**

- EEM 274 Technical/Systems Troubleshooting or 4.0
- MEC 299 Research in Advanced Mechatronics

Total Required Credit Hours: 26.0

Note: Please contact your faculty advisor for recommended evening schedules.

Visit [https://www.gvtec.edu/gainful-employment/](https://www.gvtec.edu/gainful-employment/) for important information about the educational debt, earnings and graduation rates of students who attended programs.