Mission Statement:
The Mechatronics Level 1 Certificate develops basic foundational skills and understanding in electrical, mechanical, fluid power and automation control commonly found in the industrial manufacturing environment.

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

Type of Program:
Day or evening

- This program is designed to teach the skills required for the mechatronics technician in the 21st century’s high-tech world of automated manufacturing. The program trains students in industrial environments using electrical, electronic, and mechanical applications to identify and troubleshoot Mechatronics systems and repair automated manufacturing equipment, programmable logic controllers (PLCs), and robotics. 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 under 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
- EEM 151 Motor Controls I 4.0
- EEM 117 AC/DC Circuits I 4.0
- IMT 112 Hand Tool Operations 3.0
- MAT 170 Algebra, Geometry, and Trigonometry*/** 3.0

Second Semester - Spring
- AMT 105 Robotics & Automated Control I 3.0
- EEM 118 AC/DC Circuits II 4.0
- EEM 271 Sensors & System Interfacing 2.0
- IMT 131 Hydraulics & Pneumatics 4.0

Third Semester - Summer
- IMT 104 Schematics 2.0
- IMT 105 Mechanical Sketching 2.0
- IMT 161 Mechanical Power Applications 4.0

Total Required Credit Hours: 35.0

*General education course

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

** Recommend MAT 110 in lieu of MAT 170, if placement allows. A minimum grade of a “C” is required.

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