

# Advanced Manufacturing Technology Center

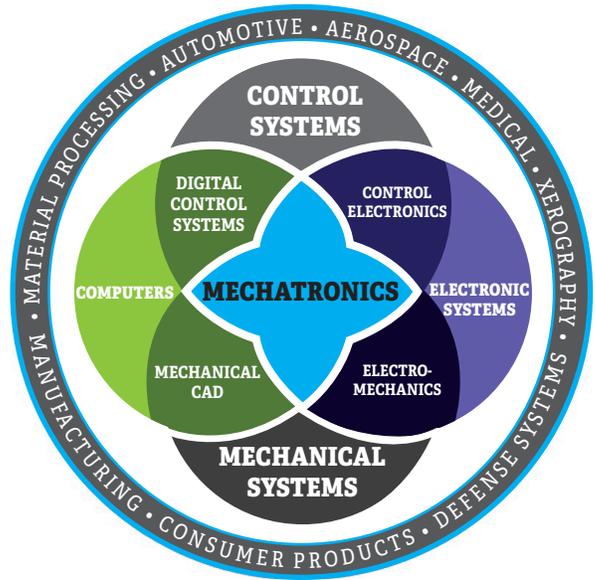
## Mechatronics/Automation Technician

### What is Mechatronics?

The word *mechatronics* describes a field that combines **mechanics** and **electronics**. The technology is used to create automated processes that operate with minimal human intervention, freeing workers from routine tasks.

Automated systems are used to produce electronic devices used in all industries – including manufacturing, computer-aided design, information technology, communications, medical and surgical devices and defense.

In these environments, production line down-time can cost thousands of dollars per hour in lost productivity and missed production deadlines. For the manufacturer to remain viable, it is imperative that their lines remain operating at peak efficiency. Mechatronics technicians keep the production lines functioning at the highest capacity.



### What is an automation technician?

The skills taught include electrical, mechanical, and computer technologies. Automation technicians will usually assist the design, development and engineering staff, as well as work closely with others to install, maintain, modify and repair mechatronic systems, equipment and component parts.

**The Bureau of Labor Statistics indicates that the median salary for experienced electro-mechanical technicians is \$53,340 per year or \$25.65 per hour.**



The Advanced Manufacturing Technology Center for Eastern Connecticut  
**Quinebaug Valley Community College**  
742 Upper Maple Street, Danielson, CT 06239  
[www.QVCC.edu/manufacturing/](http://www.QVCC.edu/manufacturing/)

# 4 STEPS TO BECOME A STUDENT

## 1. ADMISSION

- **Complete the on-line application:**  
You will need an Email address and credit or debit card to complete the application.
- **Submit your high school transcript, diploma or GED**
- **Submit your immunization records:**  
Proof of immunization for measles, mumps and rubella if born after 1956 and for varicella, if born after 1979 (waived for students who are part-time and non-degree)

## 2. FINANCIAL AID

Apply for Financial Aid: [www.fafsa.ed.gov](http://www.fafsa.ed.gov)

QVCC Code: 010530

You will need:

- Student's & Parent's (Dependent Students) Federal Tax Forms & W2's
- We recommend using the "data retrieval tool" on the FAFSA website
- Student's & Parent's social security numbers.

## 3. TAKE YOUR ASSESSMENT TEST

To schedule your **Basic Skills Assessment (BSA)** test sign up online at: [www.timecenter.com/QVCC](http://www.timecenter.com/QVCC)

If you have taken the SAT or ACT, you might be exempt from taking the BSA!

## 4. ADVISING & REGISTRATION

As a new student, you are highly encouraged to meet with an advisor to select the courses appropriate for your degree and/or certificate. Stop by or call **860.932.4008**

Do you have a quick question? Email advising: [advising@qvcc.edu](mailto:advising@qvcc.edu)

### Credit for your work experience!

Do you have industry experience? Your experience may qualify you to earn credit for some of the certificate courses.

*Call to schedule a time to come in for a learning assessment.*

## 2018-2019 Schedule

### Fall Semester 1: Basic Mechatronics

- MFG 133 Math for Electricity and Electronics (3 Credits)
- MFG 143 Industrial Motor Controls (3 Credits)
- MFG 144 Hydraulics and Pneumatics (3 Credits)
- MFG 146 Programmable Logic Controllers (3 Credits)
- MFG 159 Industrial Maintenance (3 Credits)

### Spring Semester 2: Advanced Mechatronics

- MFG 138 Digital Fundamentals (3 Credits)
- MFG 140 Robotics (3 Credits)
- MFG 142 Electronic Circuits & Devices (3 Credits)
- MFG 145 Electronic Variable Speed Drive Systems (3 Credits)
- MFG 162 CNC Maintenance & Repair (3 Credits)

• **Classes run Monday - Friday, 3:30 - 6:30 pm**

• **Take an individual course or the entire two-semester proposed certificate.**

• **30 credits apply to an Associate of Science in Technology Studies.**

• **Associate of Science in Technology Studies credits transfer to Central Connecticut State University's Bachelor of Sciences in Robotics and Mechatronics.**



Learn More:

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