State-Approved (Chapter 74)
Program Overview

Electronics

From the smart phone in your pocket to the robotics equipment used to manufacture it, electronic circuits are important to a variety of technologies.

What Students Learn & Do

Electronics programs offer an engaging learning playground for students who enjoy tinkering, building, and taking things apart. This field involves a mixture of theory and practice, and students engage in theoretical learning related to physics, mathematics and logic while working with a variety of tools to build, test, and repair electronics components.

Learning begins in a school-based environment, progressing to supervised work experiences, typically during their Senior year. Interesting hands-lon projects allow students to master the professional tools, test equipment, and procedures used in the diverse field of electronics. Upon graduation, students have the foundational skills necessary to become electronics installers and technicians; or to apply what they've learned to further education and training in high-tech engineering fields.

Graduates of Electronics programs are required to meet the same high academic standards as their peers in other high school programs. These standards are set by the State of Massachusetts. In addition, the curriculum provides a rich array of opportunities to apply skills learned in academic courses that include algebra, physics, and computer science.

Licenses & Certifications

Programs will prepare students to earn industry-recognized credentials, and typically students will be able to complete one or more before they graduate from high school. Examples:

- OSHA 10 hour - General
- Electronic Technicians Association: Student, Associate Level
- International Society of Certified Electronic Technicians: Associate

Options After High School

State-Approved (Chapter 74) programs provide precise training needed for entry-level employment. Here are some possible career opportunities for Electronics program graduates.

High School Diploma

- Electronic Technician
- Computer Technician
- Electronic Salesperson
- Printed Circuit Layout Person

Associate Degree (2 Years)

- Computer Repair
- Network Support Person
- Telecommunication Service Person
- Biomedical Equipment Technician

Bachelor's Degree (4 Years of College)

- Computer Engineer
- Electronics Designer/ Engineer
- Communications Engineer
- Robotics Engineer

Questions to Ask a Program You Are Considering

1. **What workplace experiences do you offer to students - at school, or with an employer?**
2. **What are some common next steps for graduates of this program and how do you support them to get there?**

Learn about the differences between State-Approved (Chapter 74) and Local programs:
http://www.doe.mass.edu/ccte/cvte/cte-families/state-vs-local.html

MASSACHUSETTS DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION

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