

# ELECTRONIC ENGINEERING TECHNOLOGY

Many occupations today require technical expertise. The Engineering Department offers programs for the career-minded and/or college prep student. If you are interested in such a career, check out the following program offerings.

## **Electronic Engineering Principles – AM**

0730                      Full Year – 1 Credit  
Open to Grade 10\*      1 Period Per Day

\*LHS students only.

This is an introductory program for basic electronic/electrical engineering principles and concepts. Students will gain knowledge in the core fundamentals needed to ensure continued success in the electronic engineering field. Students will experience both the theory of circuitry and hands-on practical experiences in the workshop. All tools and equipment will be provided.

## **Electronic Engineering Technology 1 – AM**

0740                      Full Year – 2 Credits  
Open to Grade 11      2 Periods Per Day

Year 1 courses include:

- Electronic Engineering Principles (if not completed in 10th grade)
- Analog-Based Electronic Devices
- DC Electronic Circuits

*Application required.*

*Prerequisite: Algebra 1*

## **Electronic Engineering Technology 2 – PM**

0750                      Full Year – 3 Credits  
Open to Grade 12      3 Periods Per Day

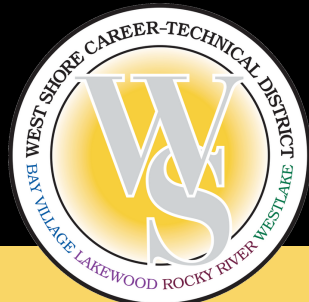
Year 2 courses include:

- Robotics
- Digital Electronics
- Engineering Capstone

*Prerequisite: Electronic Engineering Technology 2*

*Recommended: Algebra 2 with Trig*

Electronic Engineering Technology is a two-year program that will provide students the opportunity to explore the fundamental concepts of electronic engineering. This program provides students with the skills necessary to pursue this as a career after high school or for those students who wish to continue their education, they will have acquired a strong foundation to the engineering fields. During year 1, students will receive instruction in both AC & DC circuits and analog-based electronics. They will experience instruction in both theory and practical applications in the workshop. Students will learn through project-based outcomes. In their second year students will acquire skills in Robotics, Digital Circuitry, Computer Principles, AC & DC theories and circuits, as well as instruction in information transfer and basic amplifiers and speaker operations. Students will have access to a 3D printer, designer software, digital equipment and other electronic simulation software tools. Students will gain experience working with both Analog and Digital Oscilloscopes and other key equipment required of engineering students.



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College Credit Possible : Student must fulfill requirements of the college.

Internship Opportunities (paid or unpaid) : Work experience 2nd semester senior year 15 hours per week in a related occupation.

Career-Technical Student Organization: SkillsUSA

Possible Career Opportunities:

- Communication Service
- Computer Technician
- Appliance Repair Technician
- Field Service
- Electronic Technician
- Security Systems Technician
- Industrial Electronics
- Electrical Wiring
- Cable Technician
- Engineering Technician
- FBI & Military Application

