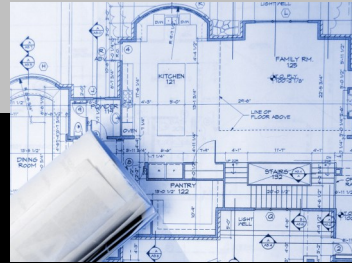


Why Technology?

According to Forbes Magazine, employment in Science, Technology, Engineering and Mathematical (STEM) occupations is projected to grow nearly two times faster than the average for all occupations over the next four years. During that time, tech companies alone will need to fill 430,000 STEM jobs. The Technology Department is designed to meet the needs of local and national workforce demands in engineering and applied sciences. Project-based, hands-on learning approach is woven throughout the curriculum.

The technology program is designed to encompass four full years. The first two years focuses on the foundations and principles of technology as well as digital electronics. The third and fourth years provides students advanced opportunities to enhance, while applying the same skills learned earlier in their education. These opportunities lay a solid foundation and provide an opportunity to pursue a technology/engineering career path in high school.

Courses



INTRODUCTORY COURSES

PRODUCTION SYSTEMS

DESIGN & DRAWING FOR PRODUCTION

ELECTRICAL TECHNOLOGY

Drone Technology

COMPUTER AIDED TECHNICAL DRAWING I

COMPUTER AIDED ARCHITECTURAL DRAWING

ROBOTICS I

ROBOTICS AND ANIMATION PROGRAMMING

ADVANCED COURSES

MATERIALS PROCESSING

WOOD TECHNOLOGY I & II

COMPUTER AIDED TECHNICAL DRAWING II

COMPUTER AIDED TECHNICAL DRAWING 3D

ARCHITECTURAL DESIGN

PRINCIPLES OF ENGINEERING

ROBOTICS II

Program Components

Design

Ever wonder how to design something new or draw out an idea to show your friends? Stop wondering and do it, using state-of-the-art 3D design software to take an idea from the design process through product testing, manufacturing and production.

Engineering

Go beyond "myth busting" to solution building! Students tackle real world challenges involving energy sources and applications, machine systems, fluid power, material strength and durability testing.

Architecture

New building plans look impressive onscreen, but how would that cool structural design stand up to a flood, earthquake, city inspector, or historical commission? Using 3D modeling software you will create and test your own residential and commercial designs.

Development

Research, design, and construct solutions to open-ended technical problems.

Project-Based Learning

Courses are project-based where students learn interesting, relevant, challenging problems through hands-on, fun activities using machinery, tools, and computer design programs used by industry professionals

TECHNOLOGY

Science, Technology, Engineering and Mathematics (STEM)

For more information visit the website and view Program of Studies at www.pmschools.org

A Comprehensive program that:

- Captures the interest of students and makes learning relevant.
- Provides a rigorous education combined with real-world, hands-on experiences.
- Exposes students to resources to the world of technology/engineering.
- Utilizes state-of-the-art computer applications and new technology.
- Explores the principles of the design process and applies them to emerging technologies.

Technology Program



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Patchogue-Medford High School Technology Education



TECHNOLOGY

Ray Ruiz,
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