

# MANASQUAN HIGH SCHOOL

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ACADEMY OF

SCIENCE, TECHNOLOGY  
ENGINEERING & MATHEMATICS

## ACADEMY OVERVIEW

The STEM Academy provides students interested in a career-focused college-level curriculum that is rich in both content and hands-on experiences. To graduate, students must take at least one course from any of the three discipline-specific lists below, along with three, or more, additional STEM courses. STEM Academy Scholars can graduate with Distinction honors after successfully completing a rigorous 3-year prescribed course of study program to develop career ready-skills.

## ACADEMY COURSES INCLUDE

### ENGINEERING

#### *PROJECT LEAD THE WAY*

- Introduction to Engineering Design
- Principles of Engineering
- Civil Engineering & Architecture
- PLTW Capstone

### INFORMATION TECHNOLOGY

#### *COMPUTER SCIENCE*

- AP Computer Science Principles
- AP Computer Science A
- PLTW Capstone

### BIOMEDICAL SCIENCE

#### *PROJECT LEAD THE WAY*

- Principles of Biomedical Science
- Human Body Systems
- Medical Interventions
- PLTW Capstone

## ADDITIONAL STEM OPEN ELECTIVES

### *MATHEMATICS*

- Honors Precalculus
- Honors Calculus
- AP Calculus AB
- AP Calculus BC
- AP Statistics

### *CONSTRUCTION*

- Materials & Methods I
- Materials & Methods II
- Construction Technology

### *SCIENCE*

- AP Biology
- AP Chemistry
- AP Physics I
- AP Physics C
- AP Environmental Science
- Lab Anatomy & Physiology
- Honors Physics