

MANASQUAN HIGH SCHOOL

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ACADEMY OF

SCIENCE, TECHNOLOGY

ENGINEERING & MATHEMATICS

ACADEMY OVERVIEW

The STEM Academy provides interested students 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