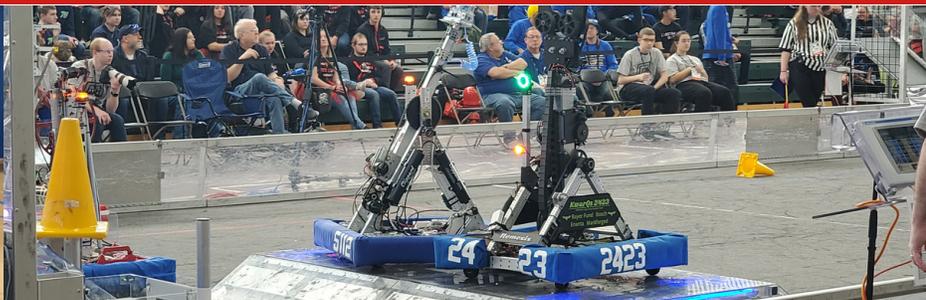
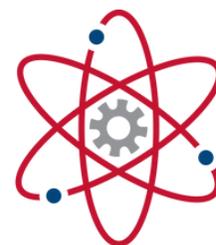


### PLTW Pre-Engineering



### Why study Pre-Engineering at Ponaganset?

*Our Pre-Engineering program goes beyond the standards and offers students additional opportunities that set our program apart from others. Students have the chance to join our award winning FIRST Robotics Competition team and compete throughout New England. Additionally, some other opportunities include CNC equipment, industrial milling machines, metal lathes and rapid prototype printers.*



PROJECT LEAD THE WAY

# PLTW

#### Discover your passion and find your purpose at Ponaganset

in the classroom, in student organizations, and experiential learning opportunities. The Pre-Engineering program offers hands-on, relevant, and rigorous instruction to students interested in pursuing STEM related occupations.

#### Immerse yourself in real-world learning experiences

and earn 80 work- based learning hours. Students must complete 80 hours during their four years. These hours are earned through industry projects, service learning, internships, and partnership team members.

#### Enhance your leadership skills

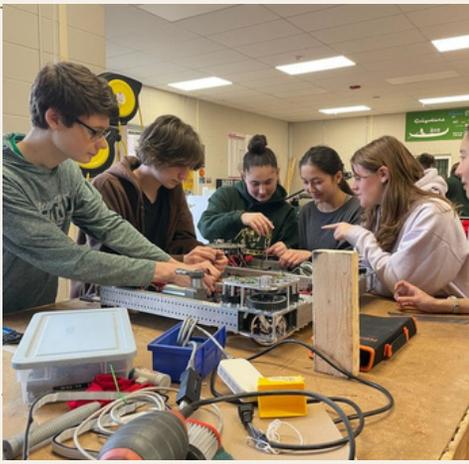
by becoming a member of National Technical Honor Society. Students are inducted in the fall of their senior year. Candidates must be enrolled in the Pre-Engineering Program all four years and meet GPA requirements. Click [here](#) for more details.

**Greg Gongoleski**  
Pre-Engineering  
CTE Program Instructor



- 24 years experience teaching pre engineering.
- FIRST Robotics Competition Team 5112 Lead Mentor since 2014
- PLTW: Introduction to Engineering Design Certification
- PLTW: Principles of Engineering Certification
- PLTW: Engineering Design and Development Certification
- FIRST Woody Flowers Award Semi-Finalist

Students in Ponaganset's Pre-Engineering Program learn through a Project Lead the Way curriculum that is supplemented with additional hands on and learning activities. Students will have the chance to meet and interact with professionals in the field, which helps to provide up to date information in STEM and engineering fields. There are many opportunities throughout the four years to apply critical thinking while engaging in hands-on, real-world problem solving.



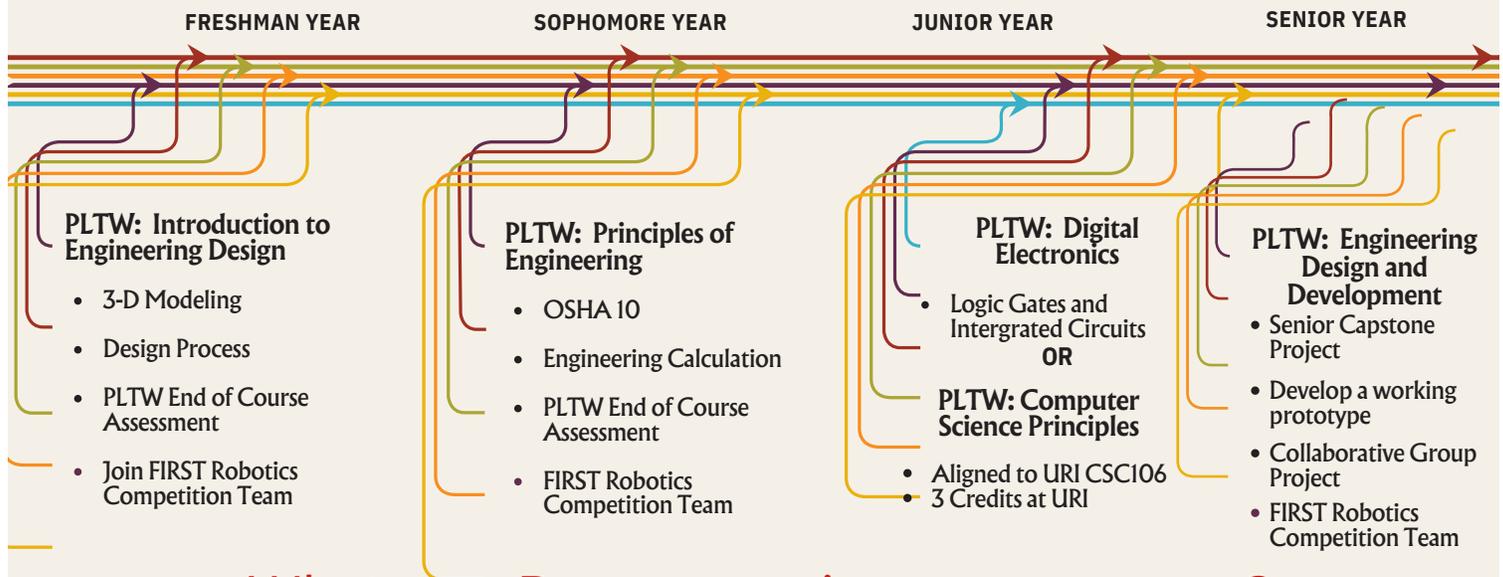
## Introduction to Engineering Design

**94.44% of students achieve Accomplished or Distinguished on the End of Course Assessment**

## Principles of Engineering

**91.67% of students achieve Accomplished or Distinguished on the End of Course Assessment**

### Four-Year path to success (click here for more details)



## What sets Ponaganset's program apart?

### College Credit Potential

The following courses provide students with the chance for college credit by scoring Accomplished or Distinguished on the PLTW End of Course Assessment.

- PLTW: Introduction to Engineering Design
- PLTW: Principles of Engineering
- PLTW: Digital Electronics
- PLTW: Computer Science Principles (AP)

### Additional Offerings

- PLTW / AP Computer Science A
- PLTW / AP Computer Science Principles
- Computer-Aided Design (CAD)
- Aerospace Engineering
- AP Physics I/II
- AP Calculus AB/BC

[\\*Click here for a full list of course offerings](#)

### Alumni Have Attended

- University of Rhode Island
- Brown University
- Worcester Polytechnic Institute
- Wentworth Insitute
- Roger Williams University
- Cornel University
- University of Connecticut
- Northeastern University
- Boston University
- University of Massachusetts - Dartmouth
- United States Coast Guard Academy
- United States Air Force Academy
- Georgia Institute of Technology
- Purdue University