



Computer Science Pathway

Ponaganset High School offers a full array of academic and Advanced Placement courses with a deep commitment to developing the whole child. The school sits on 100+ acres and features cutting-edge facilities and equipment. We provide a collaborative, relevant and personalized education supported by 1:1 technology that purposefully prepares students for college and careers. Ponaganset is accredited by NEASC, a member of the League of Innovative Schools, and an XQ Super School.

Seeking Highly Motivated Students who Want to Pursue Their Interests and Passions

Are you interested in a high-quality academic education combined with a meaningful career pathway that provides each student a laptop to enhance learning? Do you want the opportunity to earn college credit and/or industry certifications?

The Computer Science Pathway emphasizes the ethical and societal implications associated with how computing and connectivity are changing the world. Collaborating with one another, students ultimately learn to create and present solutions for real-world problems.

Students in this pathway gain crucial industry and practical skills through hands-on assignments. Students create mobile applications, automate tasks in a variety of languages, discern trends and patterns in data, identify cybersecurity threats & protect against them, and detect intrusions & respond to attacks.

Out-of-district students can apply to attend Ponaganset by visiting our website at www.fg.k12.ri.us/apply. You may also email admissions@fgschools.com.

Tuition is provided by sending districts for accepted students. Transportation is also provided to students from Coventry, East Greenwich, Scituate, Warwick and West Warwick. Limited transportation is provided to other towns via centralized bus stops.

Cutting-Edge Equipment:

- MIT App Inventor
- Python
- Java
- HTML/CSS/JavaScript
- Vernier Sensors
- Android Tablets
- Vex Robots
- Windows 10
- Mac OS X

Major Projects/Activities:

- Create an App (Android, iOS, Windows)
- Create a website
- Create animations and simulations
- Program a robot
- Secure personal computers and networks
- Solve a case with digital forensics

Professional Skills:

- Collaboration and Teamwork
- Presentation/Communication
- Agile Project Development/Scrum
- Pair Programming
- Public Speaking
- Ethics and Ethical Hacking
- Cybersecurity Best Practices



PATHWAY COURSES:

- Computer Science Essentials*
- Computer Science Principles (AP)*
- Computer Science A (AP)*
- Cybersecurity*
- Digital Electronics*
- Engineering Design & Development (Honors)*

* These courses are affiliated with Project Lead The Way (PLTW), the leading provider of STEM education in the U.S.

College Credit:

Maximum of 15 college credits

Certifications:

- AP & PLTW Recognition Credential

PLEASE NOTE: Our pathway courses, credits, certifications, etc. are continuously improving and changing. For complete up-to-date information, please visit www.fg.k12.ri.us/pathways.



Start here. Go big!® Out-of-district students apply online: www.fg.k12.ri.us/apply
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