




BHS Career & Technical Pathways

2018-2019



BHS CTE Pathways 2018-2019



[Automotive Technologies](#)

[Construction](#)

[Biomedical Science \(PLTW\)](#)

[Criminal Justice](#)

[Biotechnology](#)

[Engineering \(PLTW\)](#)

[Business & Finance](#)

[Environmental Science](#)

[Childcare](#)

[Graphic Communications](#)

[Computer Science](#)

Automotive Technologies



Automotive Technology coursework provides students with the preparation for a career in the automotive industry. System functions and hands on diagnostics are a large component within this pathway.

Automotive Technologies



Potential Careers

- Auto Body Repair
- Mechanic
- Auto Technician
- Diesel Engine Specialists

Courses at BHS

- Power & Energy (UW)
- Automotives I (UW)
- Automotives II (UW)

Biomedical Science (PLTW)



This pathway is part of Project Lead The Way (PLTW). PLTW empowers students to develop and apply in-demand, transportable skills by exploring real-world challenges. This pathway allows students to solve problems, think critically and creatively, communicate, and collaborate in the context of biology and medicine.

Biomedical Science (PLTW)



Potential Careers

- Anatomist
- Biologist
- Dietician/Researcher
- Occupational Therapist
- Physical Therapist

Courses at BHS

- Principles of Biomedical Science (H)
- Human Body Systems (H)
- Medical Interventions (H)

Biotechnology



These are hands-on skills courses with university level labs from Bio-Rad and the Amgen Biotechnology Experience. These experiences help the student prepare for technician level jobs at biotechnology companies.

Biotechnology



Potential Careers

- Agricultural biotechnology
- Animal biotechnology
- Cosmetics
- Forensics
- Medical Diagnostics

Courses at BHS

- Biotech I (CP1)
- Biotech II (CP1)
- Biotech III (CP1)

Business & Finance



In the Business & Finance program, students learn the fundamentals of business, goal setting, management techniques, risk management, resource allocation, and entrepreneurship. Students participating in the cocurricular activity DECA are encouraged to participate in this pathway.

Business & Finance



Potential Careers

- Advertising/Sales
- Accountant
- Human Resources
- Office Manager
- Public Relations

Courses at BHS

- Intro to Business (UW)
- Marketing and Communications (UW)
- Personal Finance (CP1)

Child Care



This pathway assists the student in pursuing a career working with children. Included is a 12 week, part time, on site Preschool Playschool that students can assist with lessons and interact with preschoolers. Students are required to participate in an internship at a local elementary or preschool. Successful completion will allow the student to prepare for the *Para Pro Assessment* to be certified as a Teaching Assistant in RI.

Child Care



Potential Careers

- Coach
- Nanny
- Teacher
- Teacher's Assistant

Courses at BHS

- Principles of Childhood Growth & Development (UW)
- Early Childhood Education/Teaching (UW)
- Seminar/Field Study (UW)

Computer Science (PLTW 2019-2020)



This pathway will be part of Project Lead The Way (PLTW). In the Computer Science pathway, students will be empowered to become creators of the technology all around them. The program engages students in collaborative projects that help them develop in-demand computer science knowledge as well as transportable skills like creative thinking and communication.

Computer Science (PLTW 2019-2020)



Potential Careers

- Software Developer
- Computer Systems Analyst
- Project Manager
- Web Developer

Courses at BHS

- Introduction to Computer Essentials (CP1)
- Computer Science A (AP)
- Cybersecurity



Construction

Fundamental tools and machine skills necessary to design and construct quality projects from wood and other construction materials are taught within this pathway. CAD software is used, and students have an opportunity to test for OSHA certification.

Construction



Potential Careers

- Carpenter
- Construction Manager
- Contractor
- HVAC technician

Courses at BHS

- Construction I (UW)
- Construction II (UW)
- Construction III (UW)

Criminal Justice



This pathway focuses on Law and Public safety, including an examination of the organization and jurisdiction of federal, state and local courts and law enforcement agencies. This pathway can lead to various careers with law enforcement.

Criminal Justice



Potential Careers

- Criminal Investigator
- Dispatcher
- Police Officer
- Police Detective

Courses at BHS

- Criminal Law (UW)
- Criminal Procedure (UW)
- Criminal Justice: Social & Ethics Issues (UW)



Engineering (PLTW)

This pathway is part of Project Lead The Way (PLTW). Students utilize the activity, project, and problem-based (APB) teaching and learning pedagogy. Students progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication and other professional skills. This prepares students for a wide variety of engineering careers.

Engineering (PLTW)



Potential Careers

- CAD Technician
- Engineer
- Manufacturing Technician

Courses at BHS

- Introduction to Engineering Design (H)
- Principles of Engineering (H)
- Computer Aided Manufacturing (H)

Environmental Science



This pathway is for students who are interested in ecology and how technology can assist in developing alternative energy sources. This program is approved by the RI Department of Education.

Environmental Science



Potential Careers

- Agricultural Educator
- Hazardous Materials Technician
- Pollution Prevention & Control Technician

Courses at BHS

- Environmental Science I (CP1)
- Environmental Science II (CP1)
- Green Technologies (CP1)

Graphic Communications



Students who are interested in careers in Arts and Communication will be part of this career pathway. Students are introduced to Adobe Illustrator with Photoshop Creative Cloud, which will help prepare them for a career in the graphic design field.



Graphic Communications

Potential Careers

- Special Effects & Animation
- Desktop Publishing Specialist
- Web Page Designer

Courses at BHS

- Graphic Communications I (UW)
- Graphic Communications II (UW)
- Graphic Communications III (UW)