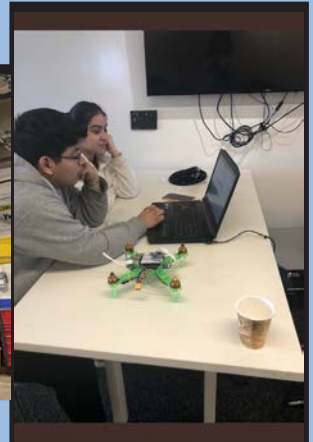
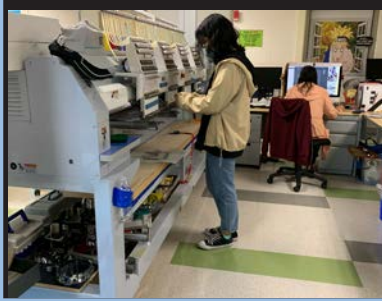


# Career & Technical Education in the Providence Public Schools



**Career and Technical Education is a focused, powerful educational experience that prepares students for both industry and higher education. To be successful in CTE, students must commit to the pursuit of an academic diploma and RIDE- mandated industry credentials. Students will work harder than many of their peers, but be positioned for high-wage, high growth careers.**

**Providence  
Schools**



# CTE Applications 2020-2021

## Programs and Pathways

Students in a CTE program take one course in the program in their freshmen and sophomore years. In the junior and senior years, students in a CTE program have alternative weeks-one full week of academic followed by a week in their CTE program. Students spend 33% of their instructional time during high school in a CTE program.

CTE programs are only offered at PCTA.

Students in a CTE pathway take one course in the program in their freshmen and sophomore years. In the junior and senior years, students in a CTE pathway take two CTE pathway courses per day. Students spend 25% of their instructional time during high school career in a CTE pathway.

Whether a student enrolls in a CTE program or pathway, it is a significant commitment of instructional time, effort and initiative. When the CTE Office reviews student essays and guidance counselor recommendations, the most important qualities that are considered are as follows:

Intentionality- does the student have an interest in the chosen program and intend to pursue a career in this industry?

Drive & Determination- does the student have the desire to invest the time and effort needed to succeed in a rigorous program or pathway while balancing a full academic course load?

For information on Zoom information sessions, applications requirements, timelines and scoring, please visit the PPSD website.

**[Providenceschools.org/octe](https://www.providenceschools.org/octe)**



# Architecture & Construction

Program:	School:	Type:
Electrical	PCTA	Program
HVAC/Plumbing	PCTA	Program
Carpentry	PCTA	Program
Maritime Welding	PCTA	Program
General Construction	PCTA	Program

# ELECTRICAL TECHNOLOGY

PROVIDENCE CAREER AND TECHNICAL ACADEMY



## PROGRAM OVERVIEW

This program is designed to prepare diverse students for a career in Electrical Technology.

Students take courses and participate in field work outside of the classroom, such as the construction of the field house for Central High School, the House Build, and school projects. Students will have an opportunity to explore the content and the practice of Electrical Technology.



## DID YOU KNOW?

Electricians install, connect, test, and maintain electrical systems for a variety of purposes including climate control, security, and communications. Although most electricians specialize in construction or maintenance, a growing number do both.

Electricians work with blueprints to install electrical systems in factories, office buildings, homes, and other structures. Blueprints indicate the locations of circuits, outlets, load centers, panel boards, and other equipment.

## OUTCOMES

- HBI Certification
- CPR, First Aid & AED Certification
- MC3 Certification
- OSHA 10
- 80 Hours Work Based Learning Hours

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



**IBEW 5 Year Program**  
**Building Futures**

Two Year Program



**New England Tech Associates**  
**CCRI National Grid**  
**CCRI/RIBTA Electrician Apprenticeship**

Four Year Program



**Bachelors in Electrical Engineering**



# HVAC/Plumbing

PROVIDENCE CAREER AND TECHNICAL ACADEMY



## PROGRAM OVERVIEW

Students who complete the HVAC-R program gain skills in heating, cooling, ventilation, refrigeration, plumbing, and customer service. Students also learn essential technologies for a variety of environments - clean room environments, computer rooms, and commercial high-rise buildings. Sustainable practices and green technology are important parts of this program.



## DID YOU KNOW?

Employment of heating, air conditioning, plumbing, and refrigeration mechanics and installers will grow 14% from 2014 to 2024. Candidates familiar with computers and electronics and those with good troubleshooting skills will have the best job opportunities. Employers seek qualified technicians to install, maintain, and repair complex systems.

## OUTCOMES

- Home Builders Institution (HBI) Certification
- VIEGA Certification
- EPA 608 & 609 Certifications
- 80 Work Based Learning hours
- OSHA 10
- First Aid

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

### Direct To Work



HVACR/ Plumbing Apprentice  
HVACR/Plumbing Supply House  
Pipefitter Apprentice  
Entry Level Construction Position

### Two Year Program



HVACR/ Plumbing Mechanic and installer  
HVACR/Plumbing Sales/ Design  
HVACR/Plumbing Commissioning Agent  
HVACR/Plumbing Marketing  
Pipefitter/Steamfitter  
Master HVAC-R Technician or Plumber

### Four Year Program



Oil Technician  
Mechanical Engineer

# CARPENTRY & HOME BUILDING

PROVIDENCE CAREER AND TECHNICAL ACADEMY



## PROGRAM DESCRIPTION

This program is designed to attract diverse students to the home construction profession. Students participate in fieldwork outside of the classroom, such as construction of the field house for Central High School and PCTA, model homes for RI Home Show and additional projects. The work is completed under the guidance of the industry to prepare students for real work situations.



## DID YOU KNOW?

Students develop technical knowledge and practical experience essential to secure employment in the manufacturing industry. construction after graduation and / or transition to a Post-Secondary Institution to promote your education in the construction trades.

## OUTCOMES

- Home Builders Institute (HBI) Certification
- 80 Work Based Learning Hours
- Ramset Certification
- CPR, First Aid & AED Certification
- OSHA 10 Certification
- Shop Safety Certification

## ¿CUALES SON MIS OPORTUNIDADES PARA DESPUÉS DE MI GRADUACIÓN?

Direct to Work



Carpenter Helper  
Construction Helper

Two Year Program



Union or Building  
Futures Apprentice

Four year Program



Bachelors in  
Construction Management

# MARITIME WELDING/ PIPE FITTING

PROVIDENCE CAREER AND TECHNICAL ACADEMY

## PROGRAM OVERVIEW

Welders are in high demand and the Maritime Welding program provides students with the opportunity to gain the knowledge, welding skills and employability skills they need to begin a career as a welder. Students can earn up to four American Welding Society's (AWS) SENSE Level 1 certificates, as well as the 10 hour safety certification from the Occupational Safety and Health Administration (OSHA-10). Students will also be given the opportunity to participate in paid internships.



## DID YOU KNOW?

By 2023, our nation's workforce will need over 375,000 welders to satisfy the demands of several industries and in the Rhode Island area. Starting salaries after high school begin around \$40,000 per year. Welding is a skill based career that does not require a college degree.

## OUTCOMES

- AWS SENSE Welding Level 1 Certificate
- AWS SENSE Certified Shielded Metal Arc Welding (SMAW)
- AWS SENSE Certified Gas Metal Arc Welding (GMAW)
- AWS SENSE Certified Flux Cored Metal Arc Welding (FCAW)
- AWS SENSE Certified Gas Tungsten Arc Welding (GTAW)
- First Aid
- OSHA 10
- Electric Boat Internship

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



Entry level or Journeyman  
Apprenticeship at Electric  
Boat

Welding inspector, welding instructor,  
foreman, supervisor, self-employment

Two Year Program



Foreman or supervisor  
Project manager, business  
manager, CEO/Company owner

Four Year Program



Engineering, research and  
development



# General Construction

PROVIDENCE CAREER AND TECHNICAL ACADEMY



## PROGRAM OVERVIEW

The NE Laborers Training Facilities in Hopkinton, MA and Pomfret, CT partnered with PCTA in designing and building indoor and outdoor labs to provide students the opportunity to practice construction techniques needed upon completion of the program. Students who complete the General Construction program at PCTA are eligible to use 1,000 hours towards completion of their apprenticeship and will receive a 10% higher salary for the remaining 3,000 hours of the apprenticeship.



## DID YOU KNOW?

Every year PCTA students are accepted into the LiUNA apprenticeship program giving them the opportunity to work in a construction job within weeks after graduation. Entry-level wage for a Construction Craft Laborer is \$46,300./\$22.26 per hour.

## OUTCOMES

- OSHA 30 Certification
- Employability skill mastery certificate
- CPR/First Aid
- 80 Work Based Learning hours
- New England Laborers apprenticeship program

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

### Direct To Work

↓  
Apprenticeship

↓  
GenCon craft laborer: concrete, masonry, asphalt, scaffolding.

### Two Year Program

↓  
Labor force supervisor

↓  
Training instructor

### Four Year Program

↓  
Project manager

↓  
Site supervisor

↓  
General manager





# Arts, A/V Technology & Communication

Program	School	Type
Graphic Communications	PCTA	Program
Visual Arts	Hope	Pathway
Music	Hope	Pathway
Music	Mt. Pleasant	Pathway
Media Arts	Hope	Pathway

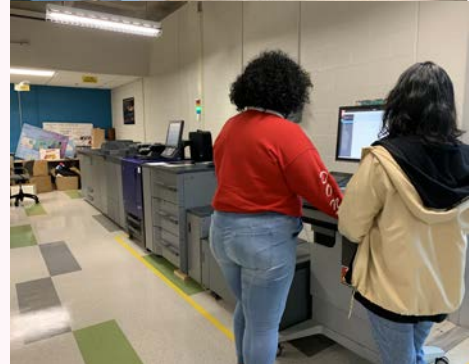
# GRAPHICS

PROVIDENCE CAREER AND TECHNICAL ACADEMY



## PROGRAM OVERVIEW

In the Graphics program, students gain relevant work experience in an ever expanding field. There is an amazing opportunity for students to acquire academic, technical, and work space skills. Adobe Creative Suite is critical to the design process. Embroidery, vinyl cutting, and digital printing round out the program.



## DID YOU KNOW?

The Graphics program at PCTA is a school-based enterprise. The program has added digital printing, embroidery, and vinyl cutting. These machines allow us to create lids, hoodies, and T-shirts. In addition, the students design brochures and flyers for local businesses and schools.

## OUTCOMES

- ADOBE Certification
- Print (ED)
- Skills USA

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



Web Designer  
Illustrator  
Package Designer

Two Year Program



Graphics Design  
Entrepreneur

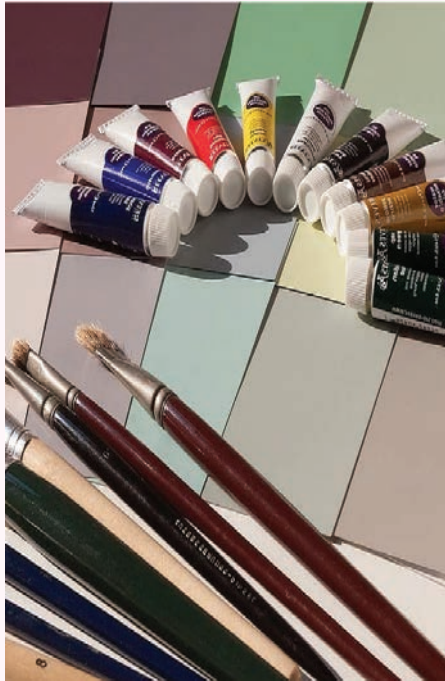
Four Year Program



Creative/Art Director  
Career and Technical  
Education Teacher

# Visual Arts

HOPE HIGH SCHOOL



## PROGRAM OVERVIEW

The Visual Arts program at Hope High School provides students the opportunity to prepare for a career in the Arts by developing and cultivating a comprehensive portfolio of work.

The Visual Arts Program offers drawing, painting, and digital media arts. Students use watercolor, acrylic painting, oil pastels, colored pencils, oil pastel, charcoal, and copic markers. The Mac lab has full color printers, a green screen and the Adobe Suite to create professional level graphics.



## DID YOU KNOW?

Artists are a vital part of the American workforce- more than two million Americans describe their primary occupation as artists. Artistic vision and design skills are needed in areas such as architecture, fashion, media, film and theatre. Artists can work as muralists, graphic designers, animators, filmmakers, architects, set designers, fashion designers, product designers, and web designers.

## OUTCOMES

- Art & Design Portfolio
- Adobe Illustrator Certification
- Adobe Photoshop Certification
- NOCTI
- Advanced Placement 2-D
- Advanced Placement Drawing

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

### Direct To Work



Fine Artist  
Designer  
Art Gallery Docent

### Two Year Program



Associates degree in Fine Arts

### Four Year Program



Bachelors in Fine Arts, Graphic  
Design, Architecture and Media  
Arts



# MUSIC

HOPE HIGH SCHOOL



## PROGRAM OVERVIEW

The Hope High School Music CTE program is designed for students interested in having a music focus during their high school career. All students are welcome and do not need to have past instrument or music experience. The Music CTE focuses on Music Instrument Performance, Music Theory, Music Technology and Music In History and Culture. Students will have opportunities to earn college credits in Music Technology and Music



## DID YOU KNOW?

High schoolers who take music courses score significantly better on exams in certain other subjects, including math and science, than their nonmusical peers, according to a study published by the American Psychological Association. Over 90% of CTE music students who complete the program are accepted to and attend college. Students learn a variety of skills that prepare them for secondary education.

## OUTCOMES

- College credit at Rhode Island College Music Department
- Music Tech 1,2,3
- Music Theory 1,2,3
- Tech/ Comp projects 1,2,3
- Core Instrument Performance
- Senior Tech Comp project

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

### Direct To Work



Private Instrument Instructor  
Sound Technician  
Recording Studio Engineer

### Two Year Program



Associates Degree In Music  
Associates- Digital Media  
Production (T.V. Radio, Production)

### Four Year Program



Bachelors Of Music- Education  
Bachelors Of Music- Performance  
Bachelors - Digital Media  
Production (T.V, Radio,  
Production)

# Music

MOUNT PLEASANT HIGH SCHOOL



## PROGRAM OVERVIEW

The Music Program at Mt. Pleasant High School engages students in a variety of musical opportunities including: instrumental and vocal instruction, school and community performances, private and small group lessons, honors coursework opportunities, state level ensemble opportunities, and advanced coursework in partnership with Rhode Island College.

This program is designed for all students, not just those wishing to pursue a career in music after high school. Music teaches multiple life skills such as independence, communication, teamwork, performance, and motor skills. Many students choose to participate in music recreationally, well after college in various community ensembles. Music is a lifelong learning opportunity.



Tri-M<sup>®</sup> Music  
HONOR SOCIETY



## DID YOU KNOW?

Mt. Pleasant High School offers programming for beginners as well as experienced musicians. There are 14 band instruments available for loan from the school and instruction in piano and guitar. Mt. Pleasant has a Chorus and Marching Band.

## OUTCOMES

- College credit at Rhode Island College
- Tr-M Honor Society membership

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



Musician

Two Year Program



Associates degree in Music or  
Fine Arts

Four Year Program



Bachelor's degree in  
Music or Fine Arts



Music Educator

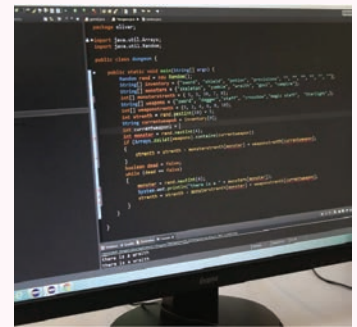
# Digital Media Production

HOPE HIGH SCHOOL



## PROGRAM OVERVIEW

The Digital Media Production program is an activity-based program that teaches design principles, image editing and illustration techniques to produce design projects for web, print, and video delivery. This program delivers advanced coursework in the highly technical and demanding computer science/communications field. This trade requires in-depth knowledge of Adobe Creative Cloud graphic/video production as well as computer programming skills.



## DID YOU KNOW?

Employment in computer and information technology occupations will grow 11% from 2019 to 2029, much faster than the average for all occupations. The average wage for computer and information technology occupations was \$88,240 in May 2019.

## OUTCOMES

- Adobe Certification
- NOCTI A/V Communications Certification
- Opportunities for college credit
- Industry internship opportunities

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



A/V editor,  
videographer/photographer, social  
media manager, website designer

Two Year Program



Associates in Video Radio  
Production

Four Year Program



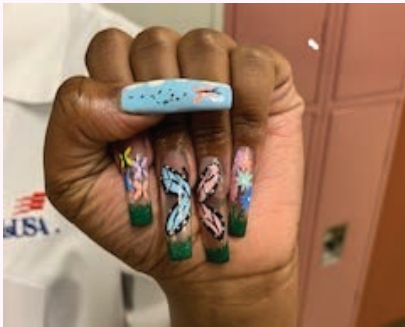
Bachelors in  
Graphic Arts, Digital  
Media, or Graphic Design





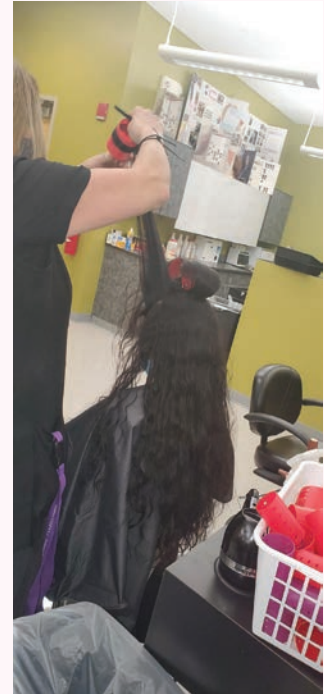
# Business & Cosmetology

PROVIDENCE CAREER AND TECHNICAL ACADEMY



## PROGRAM OVERVIEW

**The Business/Cosmetology Program combines the elements of art, science, and creativity with entrepreneurship and business management. Students learn in a full-service, clinical salon environment that provides real-world experiences. Students develop business knowledge as well as management and leadership skills. Students will become successful and financially educated salon and spa professionals.**



## DID YOU KNOW?

**In 1906, Madam C.J. Walker was the first woman of color to become an entrepreneur and a cosmetologist. She was a courageous entrepreneur with positive beliefs and confidence. Many women have overcome criticism and doubt, breaking barriers to prove themselves.**

**Consider the Business/Cosmetology Program to be the first entrepreneur in your family!**

## OUTCOMES

- ASK Business Certification
- QuickBooks Certification
- EverFi Financial Literacy Certificate
- RI Cosmetology License
- Keratin Complex Certification
- SP2 Certification
- Barbicide Certification

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work:



**Salon Owner/Manager  
Hairstylist, Special effects artist  
Fashion Show Stylist**

Two Year Program



**Associates in Business Management  
Cosmetology Instructor**

Four Year Program



**Bachelors in  
Business Management,  
Accounting, or Finance**



# Education, Training, & Human Services

Program	School	Type
Teacher Academy	Cooley High @JSEC	Pathway
Teacher Academy	Mt. Pleasant	Pathway





# TEACHER ACADEMY

JUANITA SANCHEZ HIGH SCHOOL



## PROGRAM OVERVIEW

The Education and Human Services program at Juanita Sanchez is a unique program in partnership with CCRI. Students can earn up to 15 college credits from CCRI. This program allows students to not only develop college readiness skills, but also develops industry skills. The mission of the program is to develop community and educational activists to provide support for people in need. Students gain experience in and out of the classroom.



## DID YOU KNOW?

There is an abundance of career opportunities in the Education & Human Services Field including: teacher/preschool teacher/teacher assistant, social worker, psychologist, nurse/CNA, medical and health services provider, probation officer, youth counselor, therapist/counselor/mental health counselor, child welfare case worker, and nursing home administrator.

## OUTCOMES

- 15 College Credits
- Teacher Assistant Certification
- CPR, First Aid and AED Certification
- Red Cross Babysitting and Childcare Certification
- 80 hours practicum work
- Accuplacer through CCRI

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



Teacher Assistant

Two Year Program



Associates in Education  
Early childhood teacher,  
Teaching assistant

Four Year Program



Bachelors in Education  
PK/K-12, Social Worker,  
Licenced Social Worker,  
Counselor/Therapist

# TEACHER ACADEMY

MOUNT PLEASANT HIGH SCHOOL



## PROGRAM OVERVIEW

The Teacher Academy Program includes both industry-recognized credentials and advanced coursework. Students earn their First Aid, Babysitting, and CPR certifications. They also earn OSHA 10 Healthcare and Interview Skills from Careersafe online. Students also earn a Teacher Assistant Training Certificate as approved by RIDE and take the Paraprofessional Assessment through Educational Testing Services and can qualify to be teacher assistant in RI and other states. The sequence of classes includes an Early Enrollment Program course through Rhode Island College: FNED 100 Schooling in a Democratic Society for 3 credits.



## DID YOU KNOW?

There is a growing need for teachers throughout the United States. Employment of high school teachers is projected to grow 4 percent from 2019 to 2029. Rising student enrollment should increase demand for high school teachers. The annual average wage for a RI teacher is \$75,950.

## OUTCOMES

- PARAPRO Assessment 461 or Higher
- RIDE Approved Teacher Assistant Training
- HighSchool Diploma
- First AID Certificate
- BabySitting Certificate
- Early Enrollment at Rhode Island College (3 Credits)

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



Teacher Assistant

Two Year Program

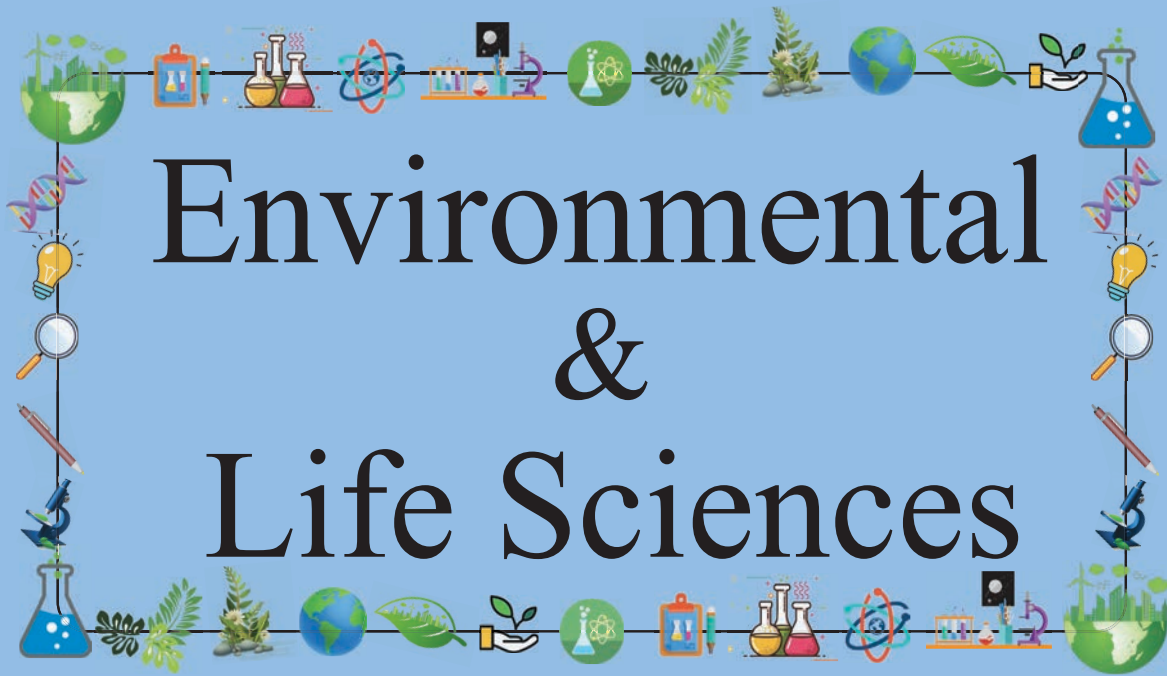


Associates in Education  
Early childhood teacher,  
Teaching assistant

Four Year Program



Bachelors in Education  
PK/K-12



# Environmental & Life Sciences

Program	School	Type
Bio-Medical	Cooley High @JSEC	Pathway





# BIOTECHNOLOGY/MEDICAL

JUANITA SANCHEZ HIGH SCHOOL



## PROGRAM OVERVIEW

In the Biotechnology/Medical Program students prepare for many career opportunities such as Nursing, Medical Tech, Biotechnology, Lab Techs, Biology, Phys./Occ. Therapy, and other Healthcare/Lab sciences. Students develop science knowledge through hands-on experiences. Students in this program will experiment, explore, and prepare for careers.



## DID YOU KNOW?

The Biomedical program will prepare students for careers in health-related and science fields. This is a highly interactive program where students conduct labs, see how people engage the scientific community, build their resume and become part of a great community.

## OUTCOMES

- Project Lead the Way (PLTW) coursework
- 80 hours of internship, service learning
- CPR & AED Certification
- OSHA 10 Certification

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



Certificate programs in  
imagery or phlebotomy

Two Year Program



Med Tech or  
Physical/Respiratory therapy

Four Year Program

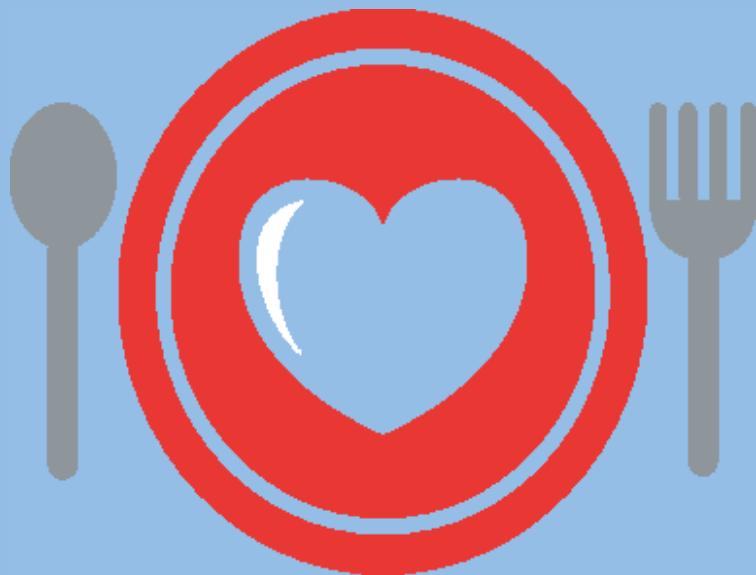


Biomedical Engineer,  
Data Scientist, Lab  
Scientist



# Hospitality & Tourism

Program	School	Type
Culinary Arts	PCTA	Program
Pastry Arts	PCTA	Program



# CULINARY ARTS

PROVIDENCE CAREER AND TECHNICAL ACADEMY



## PROGRAM OVERVIEW

Culinary students learn the necessary skills to be successful in the Food Service industry. Students learn content in theory classes and practice hands-on skills in the lab.

Students prepare menu items for PCTA's student-run Cafe. In this school-based enterprise, students create menus, receive food orders, prepare meals, greet guests, and take orders.



## DID YOU KNOW?

Most people will hold a position in the food service industry at some point in their lifetime. This industry has \$899 billion in projected sales for 2020 and \$1.6 million new jobs by 2030. Restaurants employ more multi-language speakers than any other industry.

## OUTCOMES

- ServSafe Workplace
- ServSafe Food Allergens/ Handler
- ServSafe Alcohol Service
- ProStart Level 1 & 2
- American Culinary Federation

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

### Direct To Work



Line cook  
Prep cook  
Host/Hostess  
Busser/ Server

### Two Year Program



Associates in Culinary Arts

### Four Year Program



Bachelors in Culinary Arts  
Dietician  
Nutritionist  
Restaurant Management  
Food and Beverage Manager

# PASTRY

PROVIDENCE CAREER AND TECHNICAL ACADEMY

## PROGRAM OVERVIEW

Students in the Pastry Arts program hands-on experience in a variety of methods to prepare creative pastries, breads, cake, etc. Students learn about food management, desserts, pastry principles, menu planning, catering operations and restaurant accounting. Students compete in local, state and national baking competitions along with the Prostart Culinary team.



## DID YOU KNOW?

Students in the Pastry Program at PCTA are part of a school-based enterprise known as the Cafe. Staff members along with the community at large eat here and order cakes, pastries for holidays, special occasions, birthday parties, and Providence Waterfire celebrations.

## OUTCOMES

- ProStart Level 1 & 2
- American Culinary Federation
- ServSafe Food Handler
- ServSafe Alcohol & Allergen
- ServSafe Manager

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

### Direct To Work

↓  
Baker  
Cake Designer  
Caterer

### Associates in Pastry Arts

↓  
Food Service Manager  
Retail Bakery Owner  
Hotel Pastry Manager

### Bachelors in Pastry Arts

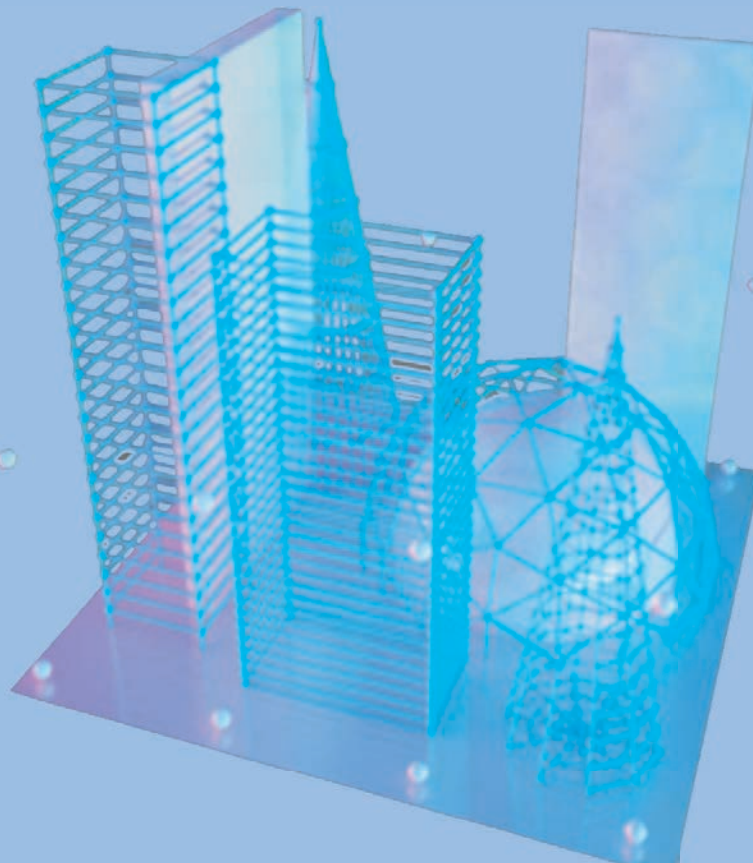
↓  
Food Nutritionist  
Food Science Tester  
Pastry Chef





# Information Technology

Program	School	Type
P-Tech Information Technology	PCTA	Program & Dual Enrollment



# INFORMATION TECHNOLOGY/ P-TECH

PROVIDENCE CAREER AND TECHNICAL ACADEMY

## PROGRAM OVERVIEW

In a P-TECH program, students earn a high school diploma, free credits towards an associates degree and gain relevant work experience in a growing field such as: Computer Science, Cyber Security, and Health Care Administration. In this program, students acquire the academic, technical, and workplace skills that employers need. P-TECH schools prepare students to move into high wage, high growth careers.

Mentoring, workplace visits, job shadowing, and internships are integrated into the program.



THE  
UNIVERSITY  
OF RHODE ISLAND



COMMUNITY  
COLLEGE  
OF RHODE ISLAND

## DID YOU KNOW?

The average wage for a TECH industry worker is \$108,900 - more than 2x the national average.

PTECH provides an opportunity for students to complete highschool, and earn a two year degree. PTECH graduates will be prepared for higher paying, successful careers.

For more information visit [www.p-techri.org](http://www.p-techri.org) or [www.ptech.org](http://www.ptech.org)

## OUTCOMES

- IC3 Certificate
- Dual/Concurrent Enrollment (URI & CCRI)
- AP Computer Science Principles

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



Technology  
Software Development  
Companies

Two Year Program

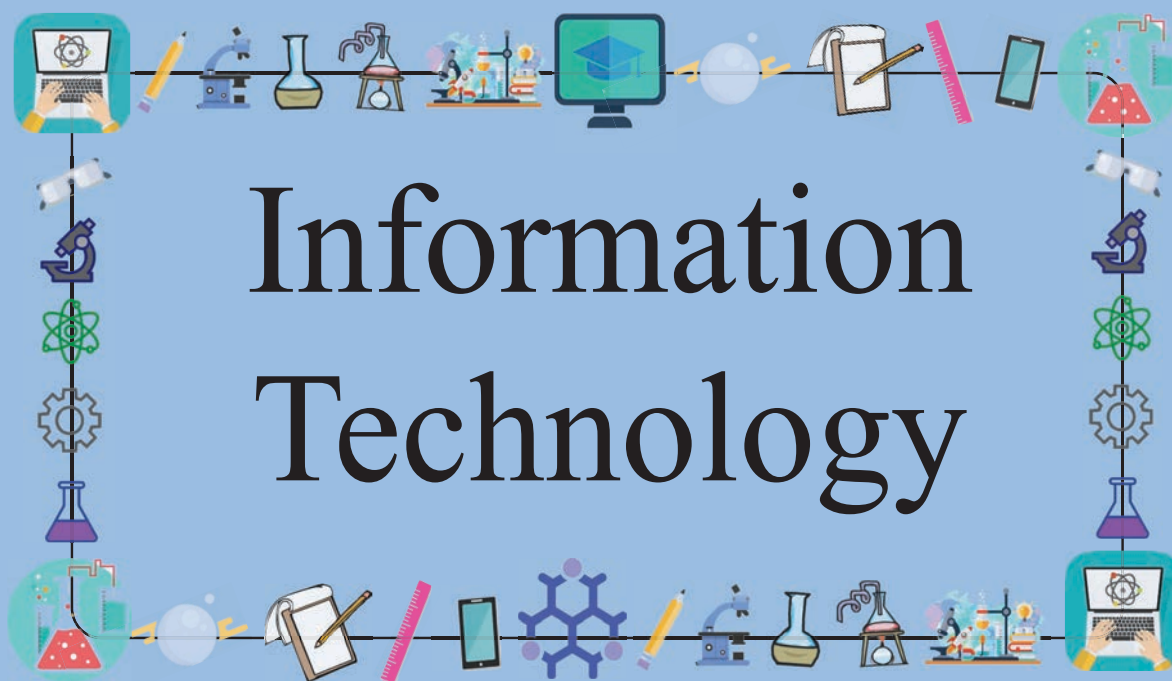


Computer Programming  
.NET Software  
Developer/Programmer

Four Year Program



Computer Science  
Software Engineering,  
Data Analytics



# Information Technology

Program	School	Type
Computer Science/CS4RI @Central	Central	Pathway
Computer Science/CS4RI @JSEC	Cooley @JSEC	Pathway
Computer Science/CS4RI @Mt. Pleasant	Mt. Pleasant	Pathway

# Computer Science/CS4RI

CENTRAL, JSEC, & MT.PLEASANT HIGH SCHOOL



## PROGRAM OVERVIEW

The Computer Science Pathway programs at Central, JSEC, Mt. Pleasant, and PCTA are funded and supported by the statewide Computer Science for Rhode Island (CS4RI) grant. Students enjoy creative problem-solving, team collaboration, and influencing others with their ideas. Students develop skills to connect their career passions to high paying jobs in one of the largest and fastest-growing fields.



## DID YOU KNOW?

Computer Science is not all about coding - it includes various fields that require coding experience. This includes the global push towards smart buildings and “green” cities. There is a projected growth of 12 % from 2018-2028 in the employment of computer and information technology occupations. Starting salaries are \$45,000-\$50,000.

## OUTCOMES

- 12 Computer Science college credits
- Pathway endorsements
- 20 hours of hands-on experience in a structured lab setting

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



Help Desk Technician

Two Year Program



College/University  
Associates in  
Computer Science/ IT

Four Year Program



College/University  
Bachelors in  
Computer Science/ IT





# Law, Public Safety, & Government

Program	School	Type
Law & Public Safety	Central	Pathway
Two Codes	Central	Pathway
JROTC	Hope	Pathway



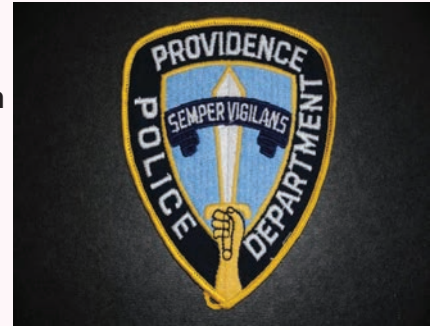
# Law, Public Safety & Security

CENTRAL HIGH SCHOOL



## PROGRAM OVERVIEW

The Law, Public Safety, & Security program prepares students for a range of careers in the legal, criminal justice, and public safety fields. It begins with an overview of the criminal justice system, including the police, courts, and corrections. The forensic science course teaches students to solve crimes and collect, preserve, and analyze physical evidence. In legal studies and criminal justice, students learn about the law in our contemporary society, the ethics and moral obligation of our citizenry, and the meaning of justice.



## DID YOU KNOW?

Students have the opportunity to earn an EMT license starting in the junior year!

Demand for public safety will lead to new openings for officers.

Average salary for a police officer is \$44,000.

Average wage for Correctional Officers/Bailiffs is \$43,000 in May 2016. EMT start at \$19.00 per hour

## OUTCOMES

- EMT certification- Emergency Medical Technician
- OSHA 10
- First Aid and CPR
- Roger Williams University- up to 9 credits

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work



EMT, Police Cadet Program

Two Year Program



Associates in Criminal Justice or Forensics Science

Four Year Program



Bachelors in Criminal Justice or Forensics Science

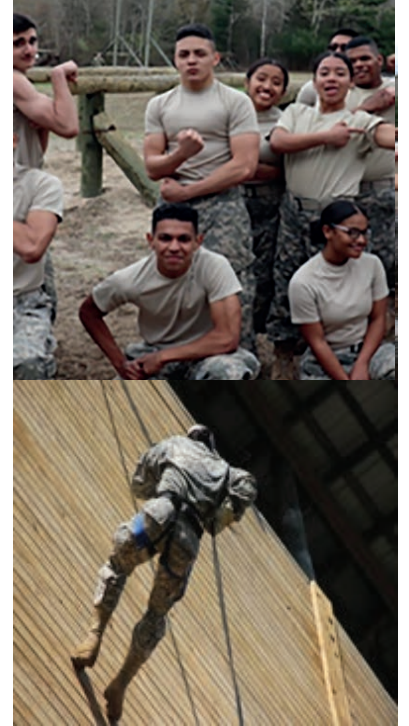
# JROTC

HOPE HIGH SCHOOL



## PROGRAM OVERVIEW

Are you someone who likes a challenge? Are you someone who likes to learn beyond the traditional classroom? Do you want to be part of a team and create life-long friends? JROTC instruction is focused on leadership, time and financial management, nutrition, CPR, and many other topics. Designed to enhance team building and personal responsibility. Hope High School's Army JROTC program is an "Honor Unit with Distinction," the Department of Defense's highest rating.



## DID YOU KNOW?

Program instructors do not recruit for the military. The mission of JROTC is: "To motivate young people to become better citizens." Beyond the classroom, cadets have the opportunity to test their physical fitness through basic tests of strength and agility. The most successful cadets over time have achieved a proper balance of academics, fitness, and nutrition.

## OUTCOMES

- Cadet Portfolio
- Service Learning Projects
- Continuous Improvement capstone project
- CPR, First Aid & AED certification
- Financial Management

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

### Direct To Work



Enlistment in the U.S.  
Armed Forces

### Two Year Program



Scholarship at institution with  
ROTC program

### Four Year Program



US Military Service Academy  
(Nomination with distinction)

# Two Codes

CENTRAL HIGH SCHOOL



## PROGRAM OVERVIEW

Two Codes is a new and innovative program being offered at select high schools across the country in partnership with College Board. This is a bold and innovative program that combines Civics and Technology, giving students a powerful opportunity to shape our democracy.

Students in the program will take two Advanced Placement courses- one in US Government and one in Computer Science - prior to graduation. Students will participate in action-based research and civics-oriented projects throughout their high school career.



## DID YOU KNOW?

The College Board is partnering with the National Constitution Center, Generation Citizen, CSforAll, and Code.org, and others to give students, “access to digital skills and a firm grounding in American democracy.”

The Class of 2025 will be the first to participate in this initiative!

## OUTCOMES

- AP US Government
- AP Computer Science Principles
- Service Learning Projects
- Project Based Work

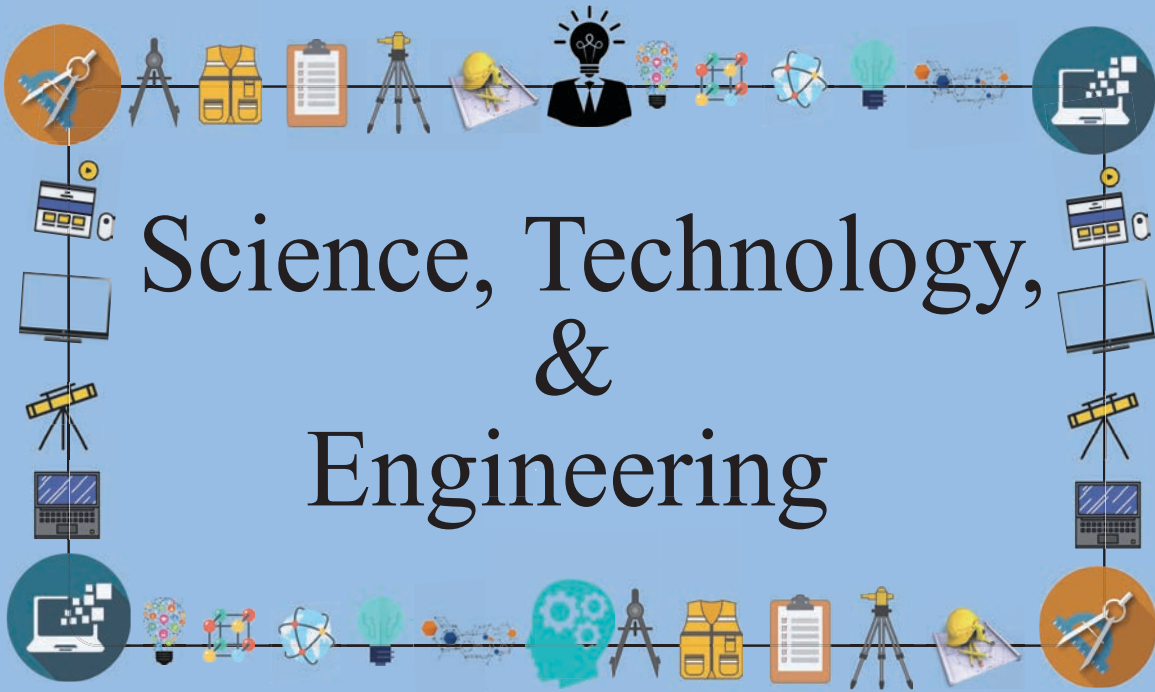
## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Direct To Work  
↓  
Community Organizer  
↓  
Entry Level help desk technician

Two Year Program  
↓  
Associates in Information Technology or Political Science

Four Year Program  
↓  
Bachelors in Information Technology or Political Science





Program	School	Type
Pre-Engineering	PCTA	Program
Pre-Engineering	Mt. Pleasant	Pathway



# PRE-ENGINEERING

PROVIDENCE CAREER AND TECHNICAL ACADEMY



## PROGRAM OVERVIEW

Students in the Pre-Engineering program at PCTA take a rigorous three course Project Lead the Way (PLTW) sequence. Students have the opportunity to earn industry-recognized credentials, post-secondary credits and/or advanced standing in training programs or jobs. PLTW courses are Introduction to Engineering Design, Computer Integrated Manufacturing, and Engineering Design & Development.



## DID YOU KNOW?

Pre-Engineering students have won Skills USA gold medals in Mobile Robotics, Prepared Speech and Interactive Video Game Design. Students tour Engineering firms, local colleges and universities and meet industry professionals to learn about opportunities in Engineering and Manufacturing.

## OUTCOMES

- SolidWorks
- Project Lead the Way coursework
- OSHA 10

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Associates in Engineering



Electronic Technician

Bachelors in Engineering



Logistic and supply chain management  
or  
Manufacturing and Production

# PRE-ENGINEERING

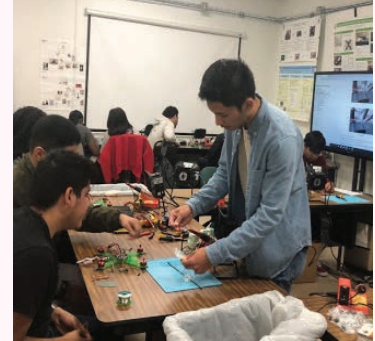
Mount Pleasant High School



## PROGRAM OVERVIEW

Students in the Pre-Engineering program at Mt. Pleasant take a rigorous three course Project Lead the Way (PLTW) sequence. Students have the opportunity to earn industry-recognized credentials, post-secondary credits and/or advanced standing in training programs or jobs.

PLTW courses are Introduction to Engineering Design, Computer Integrated Manufacturing, and Engineering Design & Development. Students also participate in Junior Achievement.



## DID YOU KNOW?

Pre-Engineering students have the opportunity to compete at Skills USA competitions in Mobile Robotics, Prepared Speech and Interactive Video Game Design.

Students tour Engineering firms, local colleges and universities and meet industry professionals to learn about opportunities in Engineering and Manufacturing.

## OUTCOMES

- Project Lead the Way coursework
- Solidworks certification
- Junior Achievement Personal Finance
- Junior Achievement Career Success

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

Two Year Program

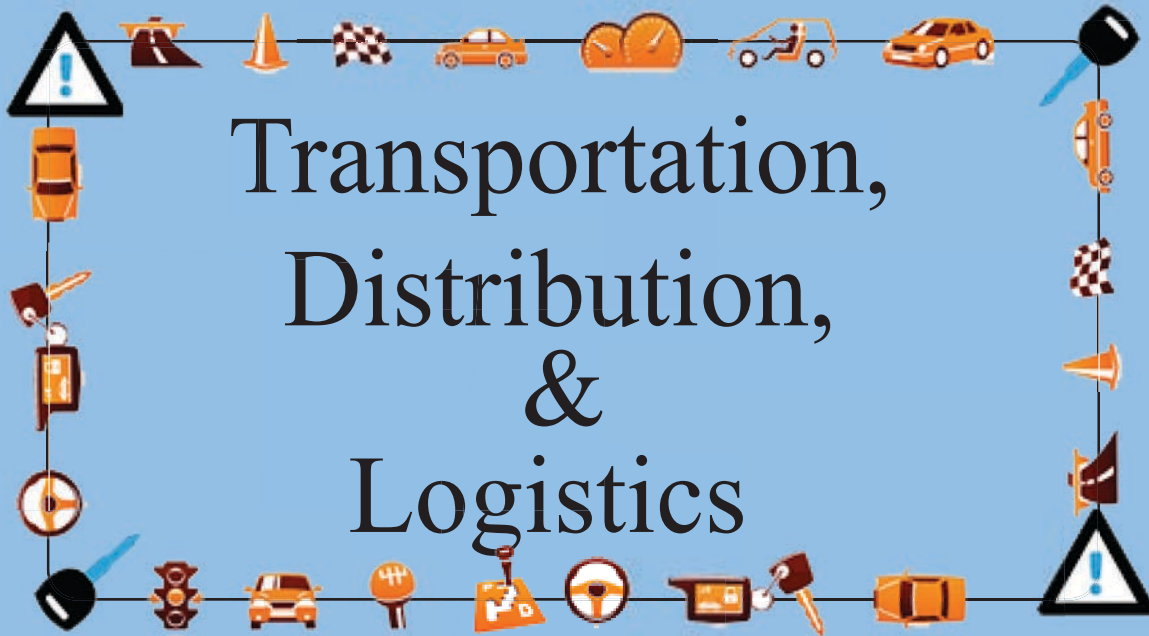


Associates in Engineering  
Electronic Technician

Four Year Program



Bachelors in Engineering  
Logistic and supply chain management  
Manufacturing and Production



# Transportation, Distribution, & Logistics

Program	School	Type
Automotive Technology	PCTA	Program





# AUTOMOTIVE TECHNOLOGY

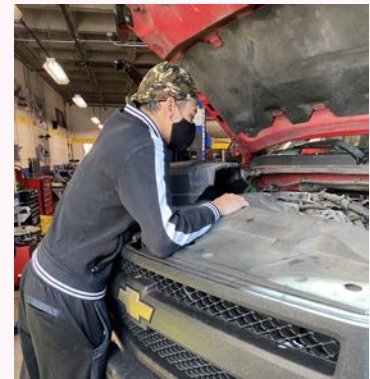
PROVIDENCE CAREER AND TECHNICAL ACADEMY

## PROGRAM OVERVIEW



This program is focused on hands-on learning! Students will spend at least 60 percent of their time in the shop evaluating and repairing vehicles. Students will complete live repairs on vehicles-the same services they will perform when working in the field.

After graduating from PCTA's automotive program, students are prepared for a rewarding career in the automotive field.



## DID YOU KNOW?

Automotive technicians/mechanics service and repair all the systems of the vehicle; engines, steering and suspension, transmissions, brakes, Heating and air conditioning, electrical and engine performance.

PCTA students learn how to service and repair these systems using state of the art industry recognized tools and equipment.

The average wage for automotive service technicians was \$40,710 in May 2018

## OUTCOMES

- Automotive Service Excellence (ASE Certification)
- AllData certification
- ALI lift certification
- 80 Hours of worked based learning

## WHAT ARE MY OPPORTUNITIES AFTER GRADUATION?

### Direct To Work



Mechanic  
Lube technician  
Parts  
Manager  
Aircraft mechanic

### Two Year Program



Associates in  
Automotive Technology  
NEIT, UTI, MTTI, Mass Bay

### Four Year Program



Bachelors in  
Automotive Technology  
NEIT