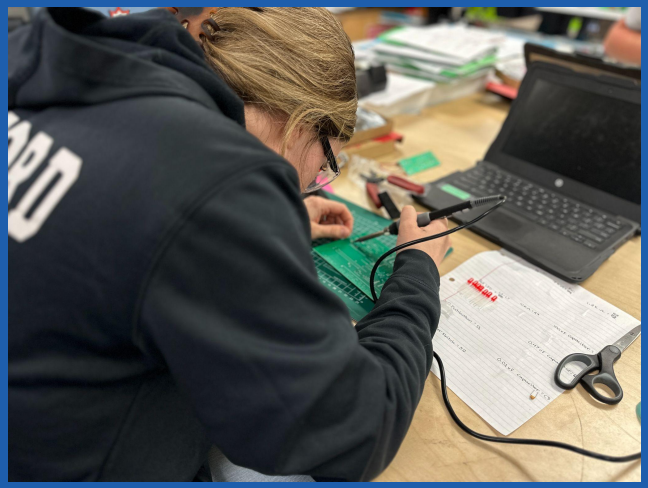


# P.K. Pathways:
## Engineering

PKY
BLUE WAVE

**LEIGH ANNE BREWSTER**
PLTW/Engineering
Instructor

**CHRISTIE MCELROY**
11th-12th Grade
School Counselor

**CHRISTY GABBARD**
Director of
Secondary Programs

**EMILY EUBANKS**
Communications Director


Our School. Your Future.

P.K. Pathways
provides purposeful, in-depth
focus for how a student spends
their ***elective***
time in high school.

PK Yonge

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# PATHWAYS

## BAND

Engaging students through creativity and disciplined coursework in Band

## CAPSTONE

Prepping students through additional Advanced Placement coursework

## COMPUTER SCIENCE WITH AI (CTE)

Preparing students for a career in Computer science and Artificial intelligence

## DESIGN & ENTREPRENEURSHIP (CTE)

Certifying students for a career in Design and Entrepreneurship

## ENGINEERING (CTE)

Developing students for a career in engineering

## HEALTH & HUMAN PERFORMANCE

Developing students through health and human performance coursework

## PERFORMING ARTS

Engaging students through creative coursework in Musical Theater or Theater

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# What is Career & Technical Education (CTE)?

Career and Technical Education provides:

- Coherent and Rigorous Content
- Technical Skills
- Transportable Skills
- Industry Certifications
- Opportunities for Bright Futures Gold Seal Scholarship

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# Why Choose the Engineering Pathway?

- Pre-Engineering curriculum to prepare for engineering careers in all fields
- Develop in-demand knowledge and transportable skills
- Engaging hands-on classroom experiences with real-world applications
- Opportunities for both collaborative work and independent work
- Ability to create products to solve real-world problems in the local community or your area of interest
- Potential career paths include: mechanical, civil, electrical, biomedical, and other engineering fields.
- A recent study shows PLTW students outperform their peers in school, are better prepared for post-secondary studies, and are more likely to consider STEM careers, compared to their non-PLTW peers.
- Students find PLTW programs relevant, inspiring, engaging, and foundational to their future success.

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# Engineering Pathway

- Basic knowledge of Engineering Design Process
- Learn and develop computer-aided design background to build, test, and further develop ideas into real-world, prototyped designs
- Real-world problems often have many solutions, with many pathways to achieve success.
- Be empowered to explore possibilities, experiment, learn from failure, adopt a problem-solving mindset, and engage in challenges that build collaboration and design thinking skills
- Build a foundation for in-demand knowledge that you'll use in high school and for the any career path you may take

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# Engineering Pathway

**About This Pathway**

- 4 Years of Engineering focused coursework
- Physics Honors
- 5 AP Courses
- 5 additional electives

**Potential Certifications (in review)**

- Florida Core Engineering Certification
- Computer-Aided Design
- Autodesk Revit
- Autodesk Inventor
- Project Management
- RECF Pre-Engineering Certification
- RECF Robotics

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# Engineering Pathway

- Introduction to Engineering
- Principles of Engineering
- Digital Electronics (year long)
  - and/or Civil Engineering and Architecture
- Physics Honors
- Engineering Design and Development (year long)

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# P.K. Pathways: Engineering

# Example Pathway Progression

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# Engineering Pathway for 9th Graders 2023-2024

| **Pathway Progression: Engineering** | |
|---|---|
| 9th | **Introduction to Engineering** |
| 10th | **Principles of Engineering** |
| 11th | **Digital Electronics *and/or*<br>Civil Engineering Architecture** |
| 12th | **Physics Honors<br>Engineering Design and Development** |

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# Enter Questions in Chat or Scan


https://forms.gle/mcskJRq82cvRsZwS7