P.K. Pathways provides purposeful, in-depth focus for how a student spends their *elective* time in high school.
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
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
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.
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
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
• Introduction to Engineering
• Principles of Engineering
• Digital Electronics (year long)
  – and/or Civil Engineering and Architecture
• Physics Honors
• Engineering Design and Development (year long)
P.K. Pathways: Engineering

Example Pathway Progression
# Engineering Pathway for 9th Graders 2023-2024

## Pathway Progression: Engineering

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>Introduction to Engineering</td>
</tr>
<tr>
<td>10th</td>
<td>Principles of Engineering</td>
</tr>
<tr>
<td>11th</td>
<td>Digital Electronics <em>and/or</em> Civil Engineering Architecture</td>
</tr>
<tr>
<td>12th</td>
<td>Physics Honors Engineering Design and Development</td>
</tr>
</tbody>
</table>
Enter Questions in Chat or Scan

https://forms.gle/mcskJRq82cvRsZwS7