

# Planning Your Pathway **ENGINEERING TECHNOLOGY & MANUFACTURING**

**10 CREDITS** necessary to complete a Pathway earned through Pathway Courses extracurricular activities and a required Capstone Course.

## EXPLORE THIS PATHWAY - *Unsure about your future?*

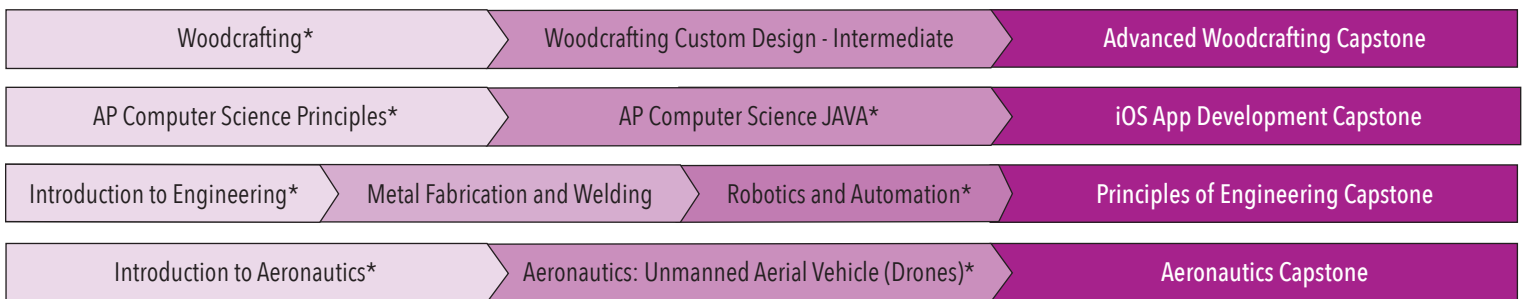


Consider taking a supporting course to see if this Pathway is right for you!

- Woodcrafting
- AP Computer Science Principles
- Python
- Intro to Engineering
- Intro to Aeronautics
- Metal Fabrication & Welding

## PURSuing A CAPSTONE - *Ready to plan for your future?*

Follow one of the course sequences below that aligns with your interests to prepare you for Pathway completion.



(\* indicates a required prerequisite course)

**PATHWAY COURSES** - up to 8 credits available from Pathway Courses

### Available Supporting Courses (# of credits):

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li><input type="radio"/> AP Calculus (2)</li> <li><input type="radio"/> AP Chemistry (2)</li> <li><input type="radio"/> AP Computer Science A: Java** (2)</li> <li><input type="radio"/> AP Computer Science Principles** (2)</li> <li><input type="radio"/> AP Physics (2)</li> <li><input type="radio"/> Aeronautics: Unmanned Aerial Vehicles (Drones) (1)</li> <li><input type="radio"/> Calculus (2)</li> <li><input type="radio"/> Computer Science Principles (2)</li> <li><input type="radio"/> Construction I *** (3)</li> <li><input type="radio"/> Construction II *** (3)</li> <li><input type="radio"/> Cybersecurity (2)</li> <li><input type="radio"/> Honors Chemistry (2)</li> </ul> | <ul style="list-style-type: none"> <li><input type="radio"/> Honors Physics (2)</li> <li><input type="radio"/> Interior Design (1)</li> <li><input type="radio"/> Intro to Engineering Design A&amp;B** (2)</li> <li><input type="radio"/> Introduction to Aeronautics (1)</li> <li><input type="radio"/> Leadership through Project Management* (1)</li> <li><input type="radio"/> Level 4 World Language Courses** or ASL 3 (2)</li> <li><input type="radio"/> Metal Fabrication and Welding (1)</li> <li><input type="radio"/> Python (1)</li> <li><input type="radio"/> Research and Design (1)</li> <li><input type="radio"/> Residential Architecture (1)</li> <li><input type="radio"/> Robotics &amp; Automation (1)</li> <li><input type="radio"/> Senior Intern Program* (3)</li> </ul> | <ul style="list-style-type: none"> <li><input type="radio"/> Woodcrafting (1)</li> <li><input type="radio"/> Woodcrafting Custom Design - Intermediate (1)</li> <li><input type="radio"/> Work Experience (2)</li> <li><input type="radio"/> Advanced Networking (1)</li> <li><input type="radio"/> Foundations of Programming (1)</li> <li><input type="radio"/> Game Design (1)</li> <li><input type="radio"/> Web Design (1)</li> </ul> |
|---|---|--|

Courses in **BLACK** are exclusive to EPHS  
 Courses in **BLUE** can also be taken through EP Online  
 Courses in **RED** are exclusive to EP Online  
 \* Instructor approval to apply credits toward Pathway  
 \*\* College credit available  
 TC Tailored Core Course

### QUALIFYING ACTIVITIES

1 Pathway credit per year - maximum 2 available

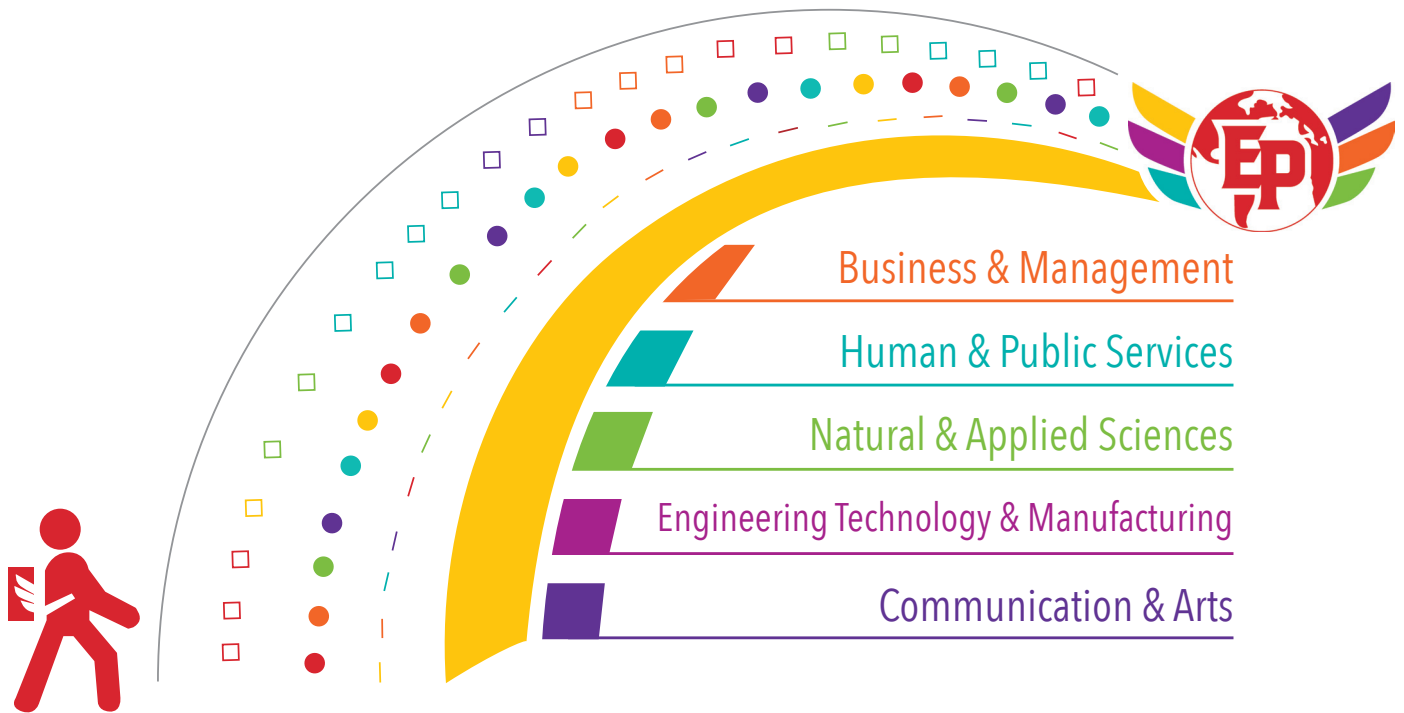
- |  |  |
|--|--|
| <input type="radio"/> Computer Science Honor Society | <input type="radio"/> Quiz Bowl        |
| <input type="radio"/> Drone Racing                   | <input type="radio"/> Robotics         |
| <input type="radio"/> Future Problem Solvers         | <input type="radio"/> Science Olympiad |
| <input type="radio"/> Math Team                      |  |

### CAPSTONE COURSES

Required - 2 credits each

- |   |  |
|---|--|
| <input type="radio"/> iOS App Development Capstone (2)          | <input type="radio"/> Aeronautics Capstone (2)               |
| <input type="radio"/> Advanced iOS App Development Capstone (2) | <input type="radio"/> Applied Engineering Capstone (2)       |
| <input type="radio"/> Advanced Woodcrafting Capstone (2)        | <input type="radio"/> Principles of Engineering Capstone (2) |

# EPHS Pathways



**Pathways** at Eden Prairie High School provides a set of experiences that students can pursue to engage in deeper learning while preparing them for future careers and life goals. Students have the opportunity to gain and apply knowledge and skills as they take part in resources projects and audiences that are authentic to a specific career field of interest. They also interact directly with industry professionals to enhance their learning and experience.

Pursuing a Pathway is not something that students test into or add to their course credit load. It is an opportunity to work within the graduation requirements and available activities to see the bigger picture of where a student's interests lie what opportunities may be available to them in the future and tailor their experience appropriately. It provides a path for their educational journey exposure to "real world" opportunities and highlights their development in a specific field. A Pathway experience can enrich their time at the high school and set them up for success after graduation.

## Our five Pathways are:



**Business & Management**



**Human & Public Services**



**Natural & Applied Sciences**



**Engineering Technology & Manufacturing**



**Communication Arts**

## Why Pursue a Pathway?

- Capstone projects provide experiences scholarships, employers, and colleges are looking for
- Make authentic products or services
- Pathway completion goes on your transcript for colleges and scholarships!
- All Capstones: go on 3-4 field trips/site visits; have 6-8 guest instructors; are project based, you apply knowledge
- Earn college credit and certifications!
- "Sometimes it's about who you know"  
- grow your network and receive mentorship