Planning Your Pathway ENGINEERING TECHNOLOGY & MANUFACTURING

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

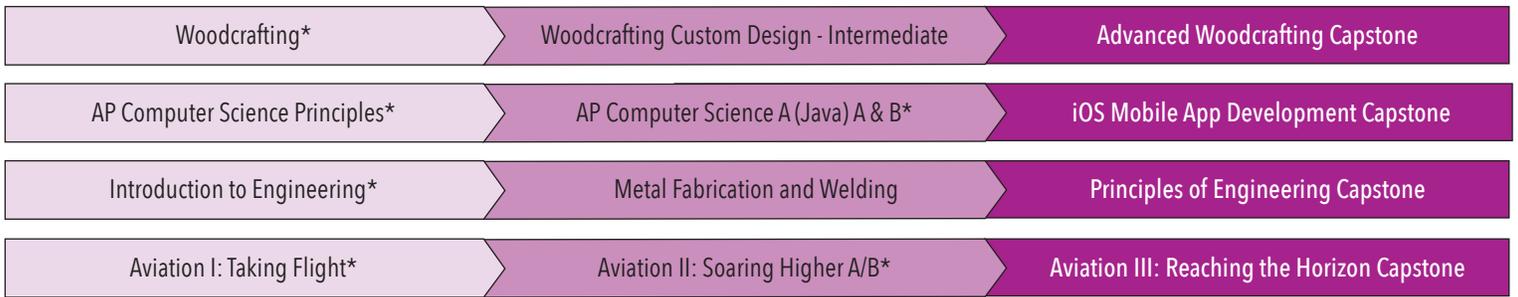## UNSURE ABOUT YOUR FUTURE? *Explore this pathway!*

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

- Woodcrafting
- AP Computer Science Principles
- Python
- Intro to Engineering
- Aviation I: Taking Flight
- Metal Fabrication & Welding

READY TO PLAN FOR YOUR FUTURE? *Pursue a Capstone!*

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

Woodcrafting*	Woodcrafting Custom Design - Intermediate	Advanced Woodcrafting Capstone
AP Computer Science Principles*	AP Computer Science A (Java) A & B*	iOS Mobile App Development Capstone
Introduction to Engineering*	Metal Fabrication and Welding	Principles of Engineering Capstone
Aviation I: Taking Flight*	Aviation II: Soaring Higher A/B*	Aviation III: Reaching the Horizon Capstone

(* indicates a required prerequisite course)

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

- AP Calculus (2)
- AP Chemistry (2)
- AP Computer Science A (Java) A & B** (2)
- AP Computer Science Principles** (2)
- AP Physics (2)
- Aviation I: Taking Flight (1)
- Aviation II: Soaring Higher A & B (2)
- Calculus (2)
- Calculus IV – Differential Equations (2)
- Computer Science Principles (2)
- Construction I * ** (3)
- Construction II * ** (3)
- Cybersecurity (2)
- Honors Chemistry (2)
- Honors Physics (2)
- Interior Design (1)
- Intro to Engineering Design A & B** (2)
- Level 4 World Language Courses** or ASL 3 (2)
- Metal Fabrication and Welding (1)
- Metal Fabrication and Welding 2 (1)
- Python (1)
- Research and Design (1)
- Residential Architecture (1)
- Robotics & Automation (1)
- Senior Intern Program* (4)

Available Supporting Courses (# of credits):

- Woodcrafting (1)
- Woodcrafting Custom Design – Intermediate (1)
- Work Experience (2)
- Advanced Networking (1)
- Foundations of Programming (1)
- Game Design (1)
- Web Design (1)

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
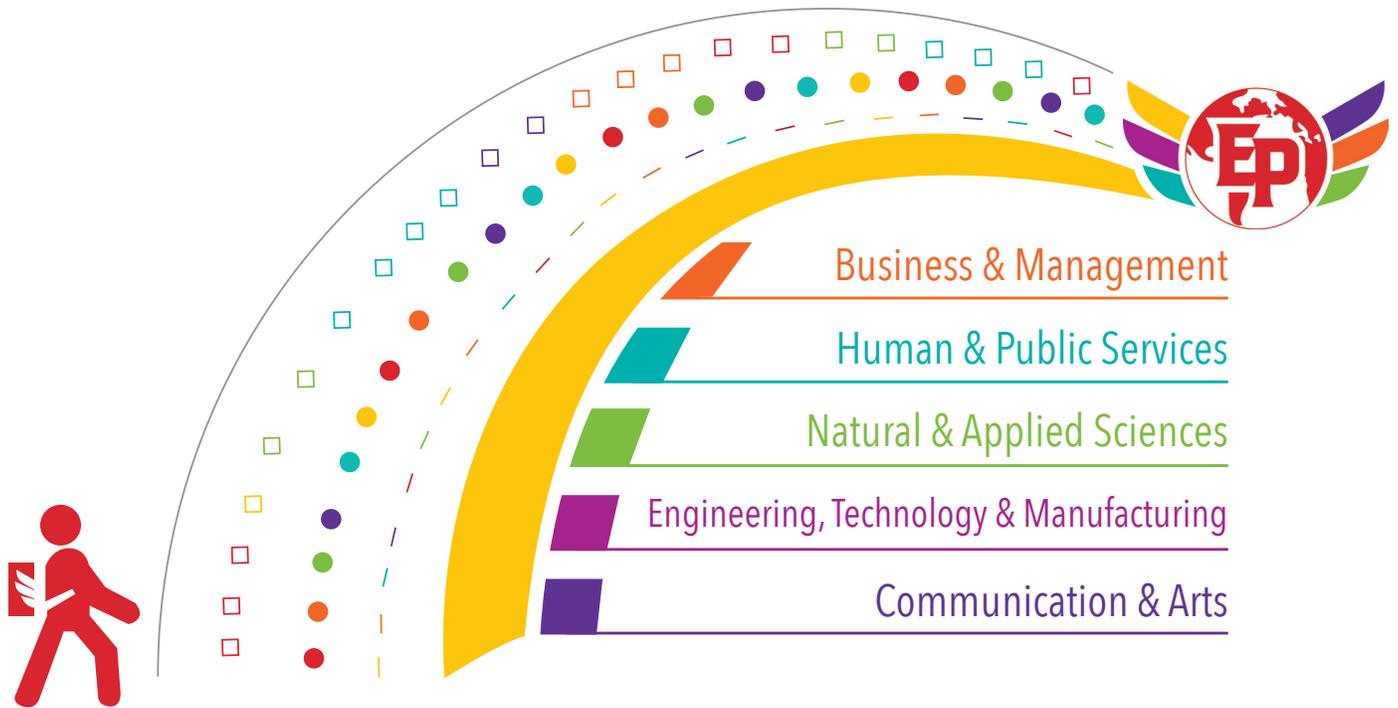*1 Pathway credit per year – maximum 2 available*

- Computer Science Honor Society
- Drone Racing
- Future Problem Solvers
- Math Team
- Quiz Bowl
- Robotics
- Science Olympiad

CAPSTONE COURSES
Required - 2 credits each

- iOS Mobile App Development Capstone (2)
- Advanced iOS Mobile App Development Capstone (2)
- Advanced Woodcrafting Capstone (2)
- Aviation III: Reaching the Horizon Capstone (2)
- Applied Engineering Capstone (2)
- Principles of Engineering Capstone (2)

EPHS Pathways

- Business & Management
- Human & Public Services
- Natural & Applied Sciences
- Engineering, Technology & Manufacturing
- Communication & Arts

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