

Engineering Design and Development

CAREER PATHWAY COURSES

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|--------------|--|
| Year 1 | <ul style="list-style-type: none">• PLTW Intro to Engineering Design*• PLTW Principles of Engineering* |
| Year 2 and 3 | <ul style="list-style-type: none">• PLTW Digital Electronics*• PLTW Civil Engineering and Architecture• PLTW Computer Integrated Manufacturing |
| Year 4 | <ul style="list-style-type: none">• PLTW Engineering Design and Development |

College Major or Career Examples

- Civil Engineering
- Electrical Engineering
- Mechanical Engineering
- Entrepreneur

Related Extracurricular Activities

- Vex Robotics Team
- Science Olympiad
- BioEngineering Team

*Current dual credit course with Triton College

Architecture and Construction

CAREER PATHWAY COURSES

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|--------|---|
| Year 1 | <ul style="list-style-type: none">• Intro to Woodworking* |
| Year 2 | <ul style="list-style-type: none">• Advanced Woodworking |
| Year 3 | <ul style="list-style-type: none">• PLTW Civil Engineering and Architecture |
| Year 4 | <ul style="list-style-type: none">• PLTW Digital Electronics*• PLTW Engineering Design and Development |

College Major or Career Examples

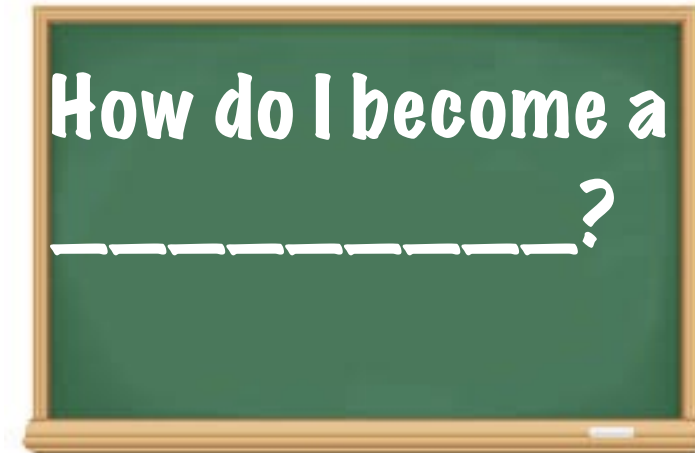
- Building/Construction Management
- Architecture
- Carpentry
- Electrician

Related Extracurricular Activities

- Vex Robotics Team
- Science Olympiad

*Current dual credit course with Triton College

Husky STEM Career Exploration and Preparation Guide



The Science and Technology division at Oak Park and River Forest High School has developed programming to help students explore and prepare for future careers before they graduate. In addition to completing a Biology, Chemistry, and/or Physics class, we encourage students to identify a career pathway to explore through their elective course selections. Completion of one of our career pathways will help students determine if that career area is the right one for their future. If it is, the student will likely have accumulated dual credits and/or certifications related to that career giving them a head start on their postsecondary endeavors. If not, the student will have come to that decision in high school before incurring unnecessary postsecondary education debt.

Science Research

CAREER PATHWAY COURSES

Year 1, 2, &3	<ul style="list-style-type: none">• Research Project in Models Science Course
Year 3	<ul style="list-style-type: none">• AP Biology• AP Chemistry• AP Environmental Science
Year 4	<ul style="list-style-type: none">• Investigative Research Design and Innovation• AP Physics

College Major or Career Examples

- Life or Physical Science Researcher
- Medical Scientist/Physician
- Biotechnology
- Entrepreneur

Related Extracurricular Activities

- Vex Robotics Team
- Science Olympiad
- BioEngineering Team

Automotive Service

CAREER PATHWAY COURSES

Year 1	Intro to Auto
Year 2	Advanced Auto
Year 3	Summer Internship with local Repair Shop

College Major or Career Examples

- Automotive Service Technician/Management
- Aircraft Maintenance Technician

Health Science

CAREER PATHWAY COURSES

Year 1	<ul style="list-style-type: none">• Biology
Year 2	<ul style="list-style-type: none">• Chemistry• Introduction to Health Careers and Medical Terminology*
Year 3	<ul style="list-style-type: none">• Fundamentals of Nursing*• Anatomy and Physiology
Year 4	<ul style="list-style-type: none">• AP Biology• AP Chemistry

College Major or Career Examples

- Nursing
- Dentistry
- Emergency Medical Technician

**Current dual credit course with Triton College*

Environmental Sustainability

CAREER PATHWAY COURSES

Year 1	<ul style="list-style-type: none">• Biology
Year 2	<ul style="list-style-type: none">• Chemistry
Year 3	<ul style="list-style-type: none">• GeoScience*
Year 4	<ul style="list-style-type: none">• AP Environmental Science• Engineering Design and Development

College Major or Career Examples

- Renewable Energy Sales/Consulting
- Water quality/treatment Management
- Environmental Engineering

**Current dual credit course with Triton College*

Manufacturing

CAREER PATHWAY COURSES

Year 1	<ul style="list-style-type: none">• PLTW Intro to Engineering Design*• PLTW Principles of Engineering*• Intro to Woodworking*
Year 2	<ul style="list-style-type: none">• Advanced Woodworking
Year 3	<ul style="list-style-type: none">• PLTW Computer Integrated Manufacturing
Year 4	<ul style="list-style-type: none">• Engineering Design and Development

College Major or Career Examples

- Machinist
- Packaging
- Engineering Technician

Related Extracurricular Activities

- Vex Robotics Team
- Science Olympiad

**Current dual credit course with Triton College*