



IDEA High School Pathways

A four-year journey: Foundations → Advanced → Focus areas with real projects

GRADE 9 · GRADE 10 · GRADES 11–12



Product Design and User Experience

Design and make products people love to use.

FOUNDATIONS · GRADE 9

- Industrial Design Foundations
- Art & Design Foundations

ADVANCED · GRADE 10

- Advanced Industrial Design
- Graphic Design
- Intro to Digital Media

FOCUS AREAS · GRADES 11–12

Product Design and Fabrication

- Vessel Design
- Prototyping

UI/UX, Animation & Game Design

- Animation
- Game Design
- UI/UX Design



Engineering Systems and Technology

Engineer the machines, structures, and systems of the future.

FOUNDATIONS · GRADE 9

- Engineering Science Foundations

ADVANCED · GRADE 10

- Intro to Manufacturing
- Advanced Engineering Science
- Intro Aviation Physics

FOCUS AREAS · GRADES 11–12

Mechanical Engineering & Robotics

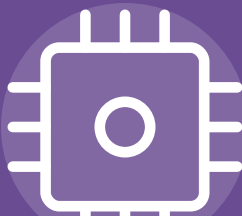
- Remotely Operated Vehicles
- Applied Engineering
- Civil & Structural Engineering

Environmental Engineering

- Sustainable Environmental Engineering Design (S.E.E.D.)

Aerospace

- Drone Aviation
- Aviation & Aeronautics



Computer Science and Circuit Design

Build the software and circuits that power technology.

FOUNDATIONS · GRADE 9

- Computer Science Foundations

ADVANCED · GRADE 10

- Intro to Circuits
- AP Computer Science Principles
- LED Circuitry

FOCUS AREAS · GRADES 11–12

Computer Science

- AP Computer Science A
- Digital Circuitry
- Robotics

Electronic Circuitry

- Digital Circuitry
- Analog Circuitry