



STEM Curriculum byDesign Courses

(click each course title to view a full course description with objectives)

Elementary School

PreK-Grade 6

- **Elementary School byDesign** (6 to 8 weeks per grade level)

PreK-Grade 5

- **Elementary Computing byDesign** (2-day supplemental lessons per grade level)

Middle School

(18-week courses)

Grade 6

- **Exploring Technology**

Grade 7

- **Invention and Innovation**

Grade 8

- **Technological Systems**

Extension Units

(4 to 7 weeks per unit)



Grades 7-9 Engineering for All (EfA)

Extension Units

- **Vertical Farms: Fresh Food for Cities**
- **Water: The World in Crisis**

High School

(36-week courses unless otherwise noted)

Grade 9

- **Foundations of Technology and Engineering**

Grades 9-12

- **Onshape Certification byDesign** (18-week course)
- **AP Computer Science Principles byDesign**



Grades 10-12

- **Technological Design**

Grades 11-12

- **Advanced Design Applications**
- **Advanced Technological Applications**
- **Engineering Design**