

Engineering & Technology Design



Courses

The Engineering and
Technology Design program
is designed for students
interested in the various
disciplines of engineering.

The sequence of courses will provide students with the opportunity to develop critical thinking skills and understanding of engineering concepts. Students then apply these skills in conjunction the engineering design process to solve realworld problems. It includes instruction in two dimensional and/or three dimensional engineering design software, solid modeling and engineering animation to solve real-world problems.

College & Career Options

- Post secondary studies
- Engineers
- Architects
- Cad designers

Engineering I (210221) - Grades 8-12

Learn and Engage

Learn about the design process

Perform modeling and create prototype

Basic CAD functions

Learn and Engage

Sketch and build projects

Authentic projects with CAD

Design and test with Dragster and Bridges

Engineering II (210222) OR Architecture Design (210140) - Grades 9-12

Learn and Engage

Apply the design process

Create models and prototypes

Develop understanding of 2D and 3D CAD

Learn and Engage

Earn Auto Desk Inventor certification

CNC milling

Laser engraving

Architecture Design (210140) OR Dual Credit NKU CAD I (EGT 212) Grades 10-12

Learn and Engage

Earn Auto Desk Inventor certification

CNC milling

Laser engraving

Learn and Engage

Earn Auto Desk Certification

Sketch and build projects with 3D software

Authentic projects and 3D printing

Engineering Capstone (UC Dual Credit) - Grades 11-12 or Engineering Co-op (210330) - Grades 12

Learn and Engage

Apply the design process involving problems

Demonstrate competencies in 2D and 3D

Learn and Engage

Work in teams to solve problems

Produce- CNC, milling, 3D, laser engraving

Internship (210331) - Grade 12

Learn and Engage

Apply the design process involving problems

Develop 2D and 3D drawings

Learn and Engage

Work in teams to solve problems

Produce- CNC, milling, 3D, laser engraving