SUNY CANTON

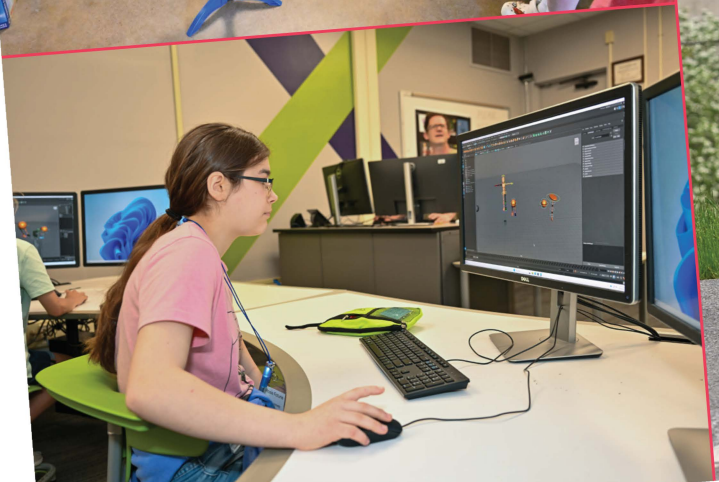
WOMEN IN ENGINEERING

SCIENCE • TECHNOLOGY • ENGINEERING • ARTS • MATH

Wed., May 13th
8:30am - 1:30pm

www.canton.edu/engineers/women.html

EVERYONE IS WELCOME HERE



Automotive Technology

Valve Cover Races

Students will change the amount of weight, weight placement, aerodynamics, and contact patch to see who will win either distance or speed.

Presenters: Michael Barney
Location: NS 124

Applied Physics

Hydrogen Fuel Cell Technology

Ever wondered how we could power cars without gas? In this hands-on workshop, you'll explore hydrogen fuel cells—the same kind scientists are using to build cleaner energy for the future. You'll turn water into power and use it to run a mini car and a fan.

Presenter: Dr. Lawretta Ononye, Dr. Kibria Roman
Location: NN 125

Chemistry

The Chemistry of Soap Making

Learn the chemistry of soap making, known as saponification, where fats and oils are converted to a substance that we use every day to keep clean. Soap made using cold processing involves reacting a specific blend of fats and oils with a strong base to create a neutral soap. However, this process can take several weeks for the chemical reaction to complete. In this workshop, the cold processing technique will be demonstrated. Then you can try your hand at crafting a bar of soap from a neutral melt-and-pour soap base and get creative with fragrances and colors.

Presenter: Nicole Heldt
Location: Cook Hall 207

Civil & Environmental Engineering Technology

Environmental and Civil Engineering - Flooding and Permeable Concrete

In this hands-on workshop, students learn about what causes flooding, the different types of flooding, and the hazards they pose to people and infrastructure. The session compares traditional flood control methods with modern, sustainable solutions. Students will use a water flume to see how water flows through stormwater management structures; then, they will mix permeable concrete to explore how green infrastructure can help mitigate flooding in built environments.

Presenter: Dr. Adrienne C. Rygel
Location: NS 135

Solar Racers: Fast Fun with Renewable Energy

Bring solar energy to life by building and racing a fast-moving Solar Race Car while learning the basics of solar power, energy conversion, and motors through a fun, hands-on activity.

Presenter: Haylee Ferington
Location: NN 115

Can your tower survive the quake?

In this hands-on engineering challenge, you'll design and build a tall tower using spaghetti and marshmallows—then put it to the test on a real shake table! Experience what civil engineers face when designing buildings in earthquake zones, and learn how the right shape and structure can mean the difference between collapse and survival. Compete against your classmates to see whose design stands tall when the ground starts to shake!

Presenter: Dr. Saeid Haji Ghasemali
Location: NS 110

Blowing in the Wind

Get blown away by this wind energy workshop, where teams of students will design and build their own wind turbines using provided materials and test their creations. Students will learn the basics of wind energy design and apply these guidelines to create powerful wind turbines.

Presenter: Jessica Fischer
Location: NS 138

HAAS
TOOL MOLDERS

Cybersecurity

Password Games

If you are interested in computer related programs, stop by the Computer Networking Lab to play the password games. You can enter the provided URLs on any web browser to play them. Each game has five levels, and you need to find or guess the password d at each level successfully to complete it.

Presenter: Minhua Wang
Location: NN 124

Electrical Engineering Technology

RGB LED Ball Holiday Kit

Visit the Electrical Engineering lab to make unique LED ball that flashes in the dark.

Presenters: Stephen Frempong, Rashid Aidun
Location: NN 118

Game Design & Development

3D Animation of Game Characters

In this class we'll learn the maya interface and take premade character rigs to learn how to animate them in ways that would be used in video game production.

Presenter: Morgan Hastings
Location: NN 119

GMMD

Illustration in Motion

Learn how to create drawn and painted animation in Procreate Dreams. Using a combination of frame by frame and tweeting techniques, we will make original moving illustrations.

Presenters: Dr. Chris Sweeney
Location: NN 112

HVAC

Keeping Cool

Build your own mini air conditioner! In this activity, students will use ice water, tubing, and a fan to create a simple cooling system. By trying different tubing shapes and setups, they will test which design makes the air the coolest. Students will learn how heat moves and how engineers design systems to keep things cool.

Presenters: Paul Todd
Location: NS 101

Information Technology

Engineering the Internet: A Network Cabling Workshop

In this hands-on workshop, you'll learn how to make your very own network cable from scratch! We'll break down how the internet travels, what different cables do, and why knowing tech skills gives you real power in a digital world.

You'll get to cut, strip, arrange, and crimp your own cable using professional tools — and test it to make sure it works.

Presenter: Stacia Smith
Location: NN 128

Mathematics

Money Smart: Math for Real-Life Decisions

Become a money-smart math whiz! Compare accounts, grow your savings with interest, and learn why borrowing isn't always the best choice—plus enjoy fun money puzzles!

Presenters: Kalani Rubasinghe Kattadige
Location: NN 102

Mechanical Engineering Technology

Rocket Engineering 101: Build, Test, Launch

Learn the basics of rocket design and flight while experimenting with different styles and customizations to see what flies best. Once your rockets are ready, take them to the launch pad and watch your creations soar!

Presenters: Dr. Lucas Craig & Cullen Haskins
Location: NS 111

Drones in Motion: Fly, Explore, and Discover

Have you ever wanted to fly a drone or get better at flying? In this hands-on session, you'll learn how to control a drone, understand flight terminology, and explore how drones can fly on their own. No experience needed. Whether you're curious about technology or just love hands-on activities, this session will give you a glimpse into the fascinating world of drones.

Presenter: Michelle Burke
Location: Dana Hall

Sponsored by:

AAUW

ARCONIC
Innovation, engineered.

EDF renewables

CORNING, INCORPORATED

SUNY CANTON
NEW YORK STATE
CSTEP
COLLEGIATE SCIENCE & TECHNOLOGY ENTRY PROGRAM
preparing science, technology & licensed professionals since 1986

CANTON
COLLEGE FOUNDATION

CANINO SCHOOL OF ENGINEERING TECHNOLOGY

Support provided by:
Carl D. Perkins
Vocational and Technical Education Act of 2006