

E X P L O R E

A Mechanical Engineering Boot Camp

D E S I G N

October 19, 20, 26 and 27, 2024

& B U I L D

Open to grades 10-12 students.

To register, visit: aus-mcebootcamp.com

Registration is FREE! Seats are limited.

Enjoy an unforgettable on-campus experience by exploring the vast field of mechanical engineering. Learn hands-on skills in our state-of-the-art laboratories:

Module 1: Design/Build and 3D Printing Day

- Using Autodesk Inventor and a 3D printer, you will design and create a unique 3D model. You will also see how you can improve its shape.

Module 2: Let's Make Our Own Products

- Go from making things in the cyber world to making things in the real world. You will use hand tools to form metals and make products that you can take and use at home.

Module 3: Crash Course on Robotics and Mechatronics

- Develop your computational thinking skills by creating graphical algorithms, and then build and program functional robots using the LEGO EV3 robotics kit.
- Have you heard about mechatronics? Find out all about this exciting field, which combines robotics, electronics, computer, telecommunications, systems, control, and product engineering. You will use the Arduino Inventor Kit to build and program a mechatronic system.

Module 4: Renewable Energy and Automotive Engineering

- Developing renewable energy is an important topic in today's world. Learn about solar and wind power by assembling a solar panel system and using a wind turbine.
- You will also learn about the design and operation of the automotive engine by building an engine model kit and testing a real lab-scale four-stroke engine.

Deadline: October 10, 2024

For inquiries, contact:
mce-bootcamp@aus.edu

