



INNOVATE Albion

Register today at
www.innovatealbion.org

INNOVATE Albion is where STEM learning takes action. As a community hub, based in downtown Albion, INNOVATE Albion is a place where youth learn new skills, are mentored by industry professionals and discover new career paths. Summer 2020 classes will be offered for students entering grades 6 through 12. All classes will be held at INNOVATE Albion, located at 200 W. Center Street in Albion. Class descriptions and dates are included below. To register visit www.innovatealbion.org.

June

- Introduction to CAD: Designed for students entering 6th through 12th grades with little to no Computer-Aided Design (CAD) experience. Students will be introduced to the basics of 3D model software. \$50.00 per student
 - Session 1: June 15 - June 19, 10:00am - 12:00pm (noon)
 - Session 2: June 22 - June 26, 10:00am - 12:00pm (noon)

July

- Introduction to Programming: Designed for students from 6th grade to 12th grade with little to no background in coding, this class will introduce participants to the basics of programming using LabVIEW. \$50.00 per student
 - Session 1: July 6 - July 10, 10:00am - 12:00pm (noon)
 - Session 2: July 13 - July 17, 10:00am - 12:00pm (noon)

August

- Advanced CAD: Design, Manufacturing and Testing: Designed for those with good knowledge of Solidworks, this class provides students with opportunities to use their CAD skillset to develop designs. Students will be asked to design for manufacturability, ease of assembly, robustness, and usability. As in all design tasks, emphasis will be placed on iterating a design to mature it to a final form. \$50.00 per student
 - Session 1: July 27- July 31, 10:00am - 12:00pm (noon)
- Advanced Programming: Real Time Hardware Controls and Sensors: Designed for those with a good working knowledge of LabVIEW, this class provides students with hands-on experience in developing programs for a real-time control platform. In particular, this class will provide students with a 2 degree of freedom robotic arm which will allow students to explore various aspects of control theory such as PID gain tuning, motion control, velocity following, and other complex control algorithms. \$50.00 per student
 - Session 1: August 3 - August 7, 10:00am - 12:00pm (noon)

***INNOVATE Albion will be observing social distance guidelines and other safety measures to help keep all participants healthy. If you have specific questions on measures being taken email connect@innovatealbion.org*