

## **MODELING AND SIMULATION APPLICATIONS - 9005230**

Grade 9-12 , Credit 1.0

This course focuses on the acquisition of technology skills for rendering a Modeling and Simulation product, including visual simulation and engineering logistics and implementation issues as they relate to Modeling and Simulation products.

Hands-on activities using an entry-level Robotics and Automation development tool (i.e. Matlab, VEX, AWS, Fusion360 or other comparable software) will be integrated into the curriculum.

The culminating activity is the creation of a 3D simulation designed to train Robotic Artificial Intelligence that will be deployed to a Robot or Automation in the physical world. This design should aid in the development of a professional portfolio in AI Robotic Applications.