

MODELING AND SIMULATION FOUNDATIONS - 9005210

Grade 9-12 , Credit 1.0

This course provides an overview of the development and expansion of the field of Artificial intelligence (AI) and its impact on society and industry. Strategies, processes and methods for conceptualizing and producing Artificial Intelligence simulation are introduced to serve as a foundation to cultivate interest and introduce technology skills and knowledge necessary for careers in AI, Machine Learning, Big Data, and Computer Science.

Hands-on activities using AI modeling and simulation development tools (i.e. Pytorch, Tensorflow, Fusion360, or other comparable software) will be integrated into the curriculum. The culminating activity is the creation of a visual AI model to aid in the development of a professional portfolio showcasing knowledge.