# ARTIFICIAL INTELLIGENCE METHODS AND APPLICATIONS, B.S. (INFORMATION SCIENCES AND TECHNOLOGY)

**Begin Campus:** Any Penn State Campus

**End Campus:** University Park

## Program Description

The Bachelor of Science in Artificial Intelligence Methods and Applications is an interdisciplinary program that will prepare students for careers in the rapidly advancing field of artificial intelligence (AI).

Graduates of this program will have strong foundations in core technical skills and AI methodology knowledge including Mathematics for AI, Programming for AI, Knowledge Representation and Inference, AI Problem Solving, and Socially Responsible AI. Additional elective courses will allow students to gain advanced AI technical skills, introduce them to specialized areas within AI and related fields, and broaden their knowledge in chosen application focus areas. The program integrates strengths across a broad range of areas of AI and related disciplines, e.g. computer science, information science, human-computer interaction, data sciences, psychology and cognitive sciences, social sciences, public policy and law, and is a truly innovative and interdisciplinary Bachelor of Science program in AI. Students in their final program year will complete a two-semester capstone course designed to offer practical experience in applying AI to real-world problems or a two-semester research project aimed to offer undergraduate research experience in AI. Students will also gain soft skills necessary for professional success through experiential learning and active participation in real-world projects and team collaboration.