

ARTIFICIAL INTELLIGENCE ENGINEERING, B.S.

Begin Campus: Any Penn State Campus

End Campus: University Park

Program Description

The Artificial Intelligence Engineering degree provides students with the mathematical and algorithmic foundations of Artificial Intelligence (AI) techniques, along with hands-on experience in using AI techniques and foundational models to design and construct software solutions to complex problems involving large amounts of data and/or complex inputs. The curriculum includes coursework in computer science, electrical engineering, mathematics, statistics, computational modeling, machine learning, and symbolic computation. Students will study algorithms, design and develop software systems, and apply this knowledge and experience to address applications of AI to complex problems. Students will gain a broader perspective of the issues required to develop responsible AI that benefits individuals, organizations, and society. Elective coursework allows students to focus on deeper topics, ranging from machine learning to vision and language.