



Graduate Certificate in Foundations of Artificial Intelligence

The Foundations of Artificial Intelligence Graduate Certificate prepares students for working as an AI Engineer who will analyze, identify, architect, design, and implement AI systems using various techniques. Students master the following skill set essential to this industry role:

- Identifying AI related problems
- Designing AI-based solutions based on machine learning, computer vision, natural language understanding, search and planning, agent systems, reinforcement, and deep learning techniques
- Identifying ethical concerns
- Specifying accountable AI
- Developing proof of concepts for AI solutions

The Graduate Certificate in Foundations of Artificial Intelligence will be awarded upon successful completion of the 12-credit curriculum below. The courses are not listed in sequential order. All course work should be completed within two years of starting the certificate program. Students should e-mail questions to EngHelp@psu.edu.

12-Credit Required Curriculum			
Course #	Course Title	Semester Completed	Grade
A-I 801	Foundation of Artificial Intelligence		
IE/DAAN 575	Foundations of Predictive Analytics (Prereq: STAT 500)		
STAT 500	Applied Statistics		
DAAN 862	Analytics Programming in Python (Prereq: STAT 500)		

Note: Students must maintain a minimum grade point average of 3.0 (B) throughout the program. Courses may be applied to master's programs if admitted as a degree-seeking student. If degree-seeking, you must formally apply for degree admission. Up to 15 credits earned may be transferred to a master's degree, subject to restrictions outlined in [GCAC-309 Transfer Credit](#). Completing this certificate does not guarantee admission to a degree program. To be awarded the graduate certificate, students must successfully complete 12 credits of course work. Students must complete each course with a grade of C or better, and an overall grade-point average of 3.0 in the certificate courses.

Questions & Advising - Students should contact EngHelp@psu.edu with any questions.

After successfully completing the required course work, please submit a Graduate Certificate Completion Form found at <http://greatvalley.psu.edu/form/graduate-certificate-completion-form>.