



Graduate Certificate in Computer Vision

The Computer Vision Graduate Certificate prepares students for working as a CV Engineer responsible for analyzing, identifying, architecture, design, and implementing computer vision based systems. Students master the following skill set essential to this industry role:

- Identifying computer vision tasks
- Framing machine vision problems (image classification, objective detection, image segmentation, activity detection, etc.)
- Designing computer vision pipelines to collect and preprocess images and videos
- Building and evaluating computer vision models based on deep neural networks and statistical machine learning techniques
- Deploying computer vision models on cloud-based infrastructure, servers, and embedded devices

The Graduate Certificate in Computer Vision will be awarded upon successful completion of the 9-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.

9-Credit Required Curriculum			
Course #	Course Title	Semester Completed	Grade
DAAN 871	Data Visualization		
A-I/DAAN 572	Reinforcement Learning		
A-I 879	Machine Vision		

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 9 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>.