



## Graduate Certificate in Cyber Threat Analytics and Prevention

The Penn State Cyber Threat Analytics and Prevention graduate certificate prepares students to understand cyberattacks, cyber laws and regulations, cyber terrorism, network vulnerabilities, system threats, and surveillance protocols. Students can acquire the skills needed to prevent, respond to, and recover from cyber threats and attacks.

The Graduate Certificate in Cyber Threat Analytics and Prevention 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 three years of starting the certificate program.

To be awarded the graduate certificate after successfully completing the required course work, please submit a Graduate Certificate Completion Form at <https://greatvalley.psu.edu/form/graduate-certificate-completion-form>.

Students should e-mail questions to [EngHelp@psu.edu](mailto:EngHelp@psu.edu).

6-Credit Required Curriculum			
Course #	Course Titles	Semester	Grade
INSC 561	Web Security and Privacy		
INSC 831	Contemporary Information Systems Architecture		
6 Credit Elective Curriculum – Choose 2 Electives			
Course #	Course Titles	Semester	Grade

### Program Electives

6-Credit Electives (Choose 2 courses from the following list)	
DAAN 545	Data Mining (formerly SWENG 545) (INSC 521 is <u>not</u> a required prerequisite.)
DAAN 871	Data Visualization
INSC/DAAN 846	Network & Predictive Analytics for Socio-Technical Systems
IST 454	Computer and Cyber Forensics
IST 554	Network Management and Security
IST 820	Cybersecurity Analytics

**\*NOTE:** Students must maintain a minimum grade point average of 3.0 (B) throughout the program. Some or all credits earned for this certificate can be applied to the Master of Science in Information Science and Master of Software Engineering, if admitted as a degree-seeking student. If degree-seeking, you must formally apply for degree admission: completing this certificate does not guarantee admission to a [degree program](#).

**Questions & Advising** - Students should contact their assigned faculty advisor for advice on course selection. General questions can be directed to [EngHelp@psu.edu](mailto:EngHelp@psu.edu).