Graduate Certificate in Cyber Threat Analytics and Prevention

The Cyber Threat Analytics and Prevention Graduate Certificate prepares students for working as a Security Engineer or Manager responsible to plan, prevent, protect, detect, analyze, respond, mitigate, and recover from large-scale and sophisticated cyber threats and attacks. Students master the following skill set essential to this industry role:

- Cyber Security
- IT Systems Architecture
- Information Assets
- Data Management & Privacy

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 two years of starting the certificate program. Students should e-mail questions to **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 *(Note: INSC 521 is not 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. 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.