

# CYBER THREAT ANALYTICS AND PREVENTION GRADUATE CREDIT CERTIFICATE PROGRAM

<b>Person-in-Charge</b>	Robin Qiu
<b>Program Code</b>	CTAP
<b>Campus(es)</b>	Great Valley World Campus

This 12-credit certificate helps students understand the core of diverse and global cyberattacks, cyber laws and regulations, vulnerabilities, threats, and surveillance systems, while gaining certain fundamental skills to plan, prevent, protect, detect, analyse, respond, mitigate, and recover from threats and attacks in a sophisticated and large-scale basis.

**Effective Semester:** Summer 2018  
**Expiration Semester:** Summer 2023

## Admission Requirements

Applicants apply for admission to the program via the Graduate School application for admission (<http://gradschool.psu.edu/prospective-students/how-to-apply>). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions (<http://gradschool.psu.edu/graduate-education-policies>). International applicants may be required to satisfy an English proficiency requirement; see GCAC-305 Admission Requirements for International Students (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-305-admission-requirements-international-students>) for more information.

## Certificate Requirements

Requirements listed here are in addition to requirements listed in Graduate Council policy GCAC-212 Postbaccalaureate Credit Certificate Programs (<http://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-212-postbaccalaureate-credit-certificate-programs>).

Students must maintain a minimum grade point average of 3.0 (B) throughout the program.

Code	Title	Credits
<b>Required Courses</b>		
INSC 561	Web Security and Privacy	3
IST 554	Network Management and Security	3
<b>Electives</b>		
Select at least two of the following:		6
IST 454	Computer and Cyber Forensics	
DAAN 871	Data Visualization	
INSC 846	Network and Predictive Analytics for Socio-Technical Systems	
IST 820	Cybersecurity Analytics	
<b>Total Credits</b>		<b>12</b>

## Courses

Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

## Contact

<b>Campus</b>	World Campus
<b>Graduate Program Head</b>	Guanghua Qiu
<b>Director of Graduate Studies (DGS) or Professor-in-Charge (PIC)</b>	Guanghua Qiu
<b>Program Contact</b>	Sharon V. Patterson

## Program Website

Penn State Great Valley  
 30 East Swedesford Road  
 Malvern PA 19355  
[svp40@psu.edu](mailto:svp40@psu.edu)  
 (610) 648-3318  
 View (<https://www.worldcampus.psu.edu/degrees-and-certificates/penn-state-online-cyber-threat-analytics-prevention-certificate/overview>)