**Cyber Threat Analytics and Prevention Graduate Credit Certificate Program**

**Person-in-Charge**
Robin Qiu

**Program Code**
CTAP

**Campus(es)**
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.

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

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**

**Campus**

Great Valley

**Graduate Program Head**
Guanghua Qiu

**Director of Graduate Studies (DGS)**
Guanghua Qiu

**Program Contact**
Sharon V. Patterson  
svp40@psu.edu  
(610) 648-3318

**Campus**

University Park

**Graduate Program Head**
Guanghua Qiu

**Program Contact**

**Campus**

World Campus

**Graduate Program Head**
Guanghua Qiu

**Director of Graduate Studies (DGS)**
Guanghua Qiu

**Program Contact**
Sharon V. Patterson  
Penn State Great Valley  
30 East Swedesford Road  
Malvern PA 19355  
svp40@psu.edu  
(610) 648-3318

**Program Website**

View (https://www.worldcampus.psu.edu/degrees-and-certificates/penn-state-online-cyber-threat-analytics-prevention-certificate/overview)