The Cyber Threat Analytics and Prevention 12-credit graduate certificate at Penn State Great Valley prepares students to understand the diverse and global cyberattacks, cyber laws and regulations, vulnerabilities, threats, and surveillance systems, while gaining certain fundamental skills to plan, prevent, protect, detect, analyze, respond, mitigate, and recover from threats and attacks in a sophisticated and large-scale basis.

**Effective Semester:** Summer 2023  
**Expiration Semester:** Summer 2028

### Admission Requirements

Applicants apply for admission to the program via the Graduate School application for admission (https://gradschool.psu.edu/graduate-admissions/how-to-apply/). Requirements listed here are in addition to Graduate Council policies listed under GCAC-300 Admissions Policies (https://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 (https://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 (https://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>
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<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
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<tr>
<td>INSC 831</td>
<td>Contemporary Information Systems Architecture</td>
<td>3</td>
</tr>
<tr>
<td>INSC 561</td>
<td>Web Security and Privacy</td>
<td>3</td>
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<tr>
<td><strong>Electives</strong></td>
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<td>Select at least two of the following:</td>
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<tr>
<td>DAAN 871</td>
<td>Data Visualization</td>
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<tr>
<td>INSC 846</td>
<td>Network and Predictive Analytics for Socio-Technical Systems</td>
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<td>IST 454</td>
<td>Computer and Cyber Forensics</td>
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<td>IST 554</td>
<td>Network Management and Security</td>
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</tbody>
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### Learning Outcomes

Students will be able to:

1. Effectively communicate cyber security knowledge, including vulnerability, threat, cyberattack analysis, and suspicious and attack findings in written formats in a manner appropriate to the audience.
2. Collect and Analyze data to uncover, detect, and analyse network suspicious activities and cyberattacks.
3. Demonstrate understandings and skills to plan, protect, respond, mitigate, and recover from cyber threats and attacks.

### Contact

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