Graduate Certificate in Cyber Security

The Graduate Certificate in Cyber Security is designed for students and practitioners who already hold a baccalaureate or graduate degree and are interested in further professional education in this field. The Graduate Certificate requires 15 credit hours of coursework.

Admission Requirements

The Graduate Certificate in Cyber-Security is available to students who are currently enrolled in a UTEP Graduate degree program and to non-degree-seeking students who enroll solely to obtain a certificate.

Students apply through the Graduate School by submitting an application and the following supporting materials:

- Official transcripts of all previous academic work.
- Official scores on the Graduate Record Exam (GRE).
- Official scores on the Test of English as a Foreign Language (TOEFL), if required.
- Personal Statement of Purpose.
- Letters of recommendation (optional).
- A CV/resume with evidence of other relevant experience.

Depending on qualifications for study, students may need to complete leveling coursework at the undergraduate level. These courses are not applied towards the certificate. Applicants must be able to demonstrate knowledge of programming in high-level language such as Java or C++, including knowledge of data structure and algorithms. This can be demonstrated by completing CS 2302 Data Structures with a B or better, or by completing equivalent coursework or certification as approved by the program committee.

Required Coursework

The Graduate Certificate in Cyber Security is a 15 credit hour program. Students must complete five courses with a B average or better and with no more than one C.

Degree Plan

Required Credits: 15

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 5313</td>
<td>Computer Networks</td>
<td>6</td>
</tr>
<tr>
<td>CS 5352</td>
<td>Computer Security</td>
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Technical Electives (9) credit hours (B average or better is required) 9

Select three courses from the following:

- CS 5339 Secure Web-Based Systems
- CS 5340 Advanced Operating Systems
- CS 5371 Software Safety & Risk Analysis
- CS 5375 Software Reverse Engineering
- CS 5376 Comp. Dec Making & Risk Anal
- CS 5377 Cyber-Sec for Critical Op Tech

Total Hours 15