

Cybersecurity, Graduate Certificate

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Requirements

The Graduate Certificate in Cybersecurity at Utah Valley University is a post-baccalaureate program for students who wish to complete advanced studies in the field of cybersecurity. This program is designed to provide students with advanced technical and managerial knowledge of cybersecurity, preparing them for senior technical and leadership roles in the field. Coursework includes a balanced approach, combining critical analysis of cybersecurity theory with hands-on education for essential applied cybersecurity techniques and tools. The program takes two semesters to complete the 18 credits of graduate level courses. Courses include cybersecurity operations, advanced network defense, cybersecurity management, case studies, secure coding, ethical hacking, and the legal and privacy implications of cybersecurity.

To be successful, students should have a strong background in technology. Students should have completed undergraduate work in a related field or have applicable work experience. For those who do not meet this requirement, select undergraduate courses are available to provide the foundational knowledge needed. Please contact the academic advisor for more information.

Total Program Credits: 18

Matriculation Requirements:			
<ol style="list-style-type: none"> 1. Application for admission to the program. 2. Bachelor's degree required, preferably in Information Systems, Information Security, Information Technology, or Computer Science. 3. 2 years of IT or IT security industry experience (if Bachelor's degree in non-related field). 4. Completion of undergraduate courses in data communication, programming, and servers. 			
Discipline Core Requirements:			12 Credits
	IT 6300	Principles of Cybersecurity	3
	IT 6330	Cybersecurity Operations	3
	IT 6350	Law, Ethics, and Privacy in Cybersecurity	3
	IT 6370	Penetration Testing and Vulnerability Assessment	3
Elective Requirements:			6 Credits
Choose 6 credits from the following:			6
	IT 6660	Advanced Network Forensics (3.0)	
	IT 6740	Advanced Network Defense and Countermeasures (3.0)	

	IT 6760	Case Studies in Cybersecurity (3.0)	
	IT 6770	Cybersecurity Management (3.0)	
	IT 6780	Secure Coding (3.0)	
	or other departmental approved electives		

Graduation Requirements:

1. Completion of a minimum of 18 credits.
2. Overall grade point average of 3.0 (B) or above.
3. Residency hours -- minimum of 5 credit hours through course attendance at UVU.
4. Courses and project requirements must be finished within a five-year period. No courses will apply toward graduation which are older than five years.

Cybersecurity, Graduate Certificate Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
<i>IT 6300</i>	Principles of Cybersecurity	3
IT 6330	Cybersecurity Operations	3
	Semester total:	6
Semester 2	Course Title	Credit Hours
IT 6350	Law, Ethics, and Privacy in Cybersecurity	3
IT 6740	Advanced Network Defense and Countermeasures	3
	Semester total:	6
Notes: IT 6740 is an elective. Not all electives will be offered 2016-2017.		
Semester 3	Course Title	Credit Hours
IT 6370	Penetration Testing and Vulnerability Assessment	3
Elective		3
	Semester total:	6
Notes: Elective offered will depend on demand. IT 6660, IT 6760, IT 6770, or IT 6780.		
	Degree total:	18