

Grayson College Course Catalog

Overview

The Cybersecurity AAS degree prepares students for a career in cybersecurity management and the support tasks relating to network management, system administration, technical support, hardware/software installation, and equipment repair.

The program graduate will be able to design and install secure network systems based on customer requirements, monitor and maintain network traffic and security, and maintain network hardware and software.

Courses and hands-on labs in this program will assist the graduate in preparing to take a variety of Cisco, Microsoft, and CompTIA certification examinations.

Note:

Most careers in the Cyber Security field require a criminal background check, thus your placement in internships, and/or licensure/certification opportunities may be impacted. If you have any questions or concerns, please contact your program director and/or check with your chosen licensing/certification entity, to determine your status.

AAS Degree Requirements

Associate of Applied Science - Cyber Security Administration

Subject	Semester Hours
ENGL 1301 (Composition I)	3
ITNW 1354 (Implementing and Supporting Servers)	3
*Elective	3
ITNW 1325 (Fundamentals of Networking Technologies)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1316 (Linux Installation and Configuration)	3
ITSC 1342 (Shell Programming)	3
*Elective	3
*Life and Physical Sciences/Math Core	3
ITSY 1300 (Fundamentals of Information Security)	3
ITSY 2317 (Wireless Security Development)	3
SPCH 1311 (Introduction to Speech Communication)	3
ITNW 2305 (Network Administration)	3
*Lang, Phil, Culture/Creative Arts Core	3
ITNW 2355 (Server Virtualization)	3
CPMT 1349 (Computer Networking Technology)	3
Elective	3
ITSC 2325 (Advanced Linux)	3
*Social/Behavioral Sciences	3
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60	

*Approved Electives- ITNW 1308, ITNW 1354, ITSW 1307, CPMT 2388, CPMT 2389, CPMT 2688, COSC 1336, ITSC 1305, IMED 1316, IMED 2315, EECT 1407, COSC 1337, COSC 2336, COSC 2330, CPMT 1391, ITSC 2339, ITSC 1309, CPMT 1311, CPMT 1303, ITNW 1351, CPMT 2345, ITSE 2317

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

Certificate Degree Requirements

Cyber Security Technician - Certificate

Subject	Semester Hours
ITNW 1354 (Implementing and Supporting Servers)	3

ITNW 1325 (Fundamentals of Networking Technologies)	3
ITSC 1316 (Linux Installation and Configuration)	3
CPMT 2350 (Industry Certification Preparation)	3
CPMT 1345 (Computer Systems Maintenance)	3
ITSC 1342 (Shell Programming)	3
ITSY 1300 (Fundamentals of Information Security)	3
ITSY 2317 (Wireless Security Development)	3
ITNW 2305 (Network Administration)	3
ITNW 2355 (Server Virtualization)	3
CPMT 1349 (Computer Networking Technology)	3
ITSC 2325 (Advanced Linux)	3

36

*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

ITNW 2355 - Server Virtualization

An in-depth study of the installation, configuration, management and troubleshooting of a virtualized server environment.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ITNW 1354](#) - Implementing and Supporting Servers
- [ITNW 2305](#) - Network Administration

Restrictions:

- ITNW 1354 (Implementing and Supporting Servers) -or- ITNW 2305 (Network Administration)
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ITSC 1342 - Shell Programming

Reading, writing, and debugging shell scripts. Development of scripts to automate frequently executed sequences of commands. Covers conditional logic, user interaction, loops, and menus to enhance the productivity and effectiveness of the user. Intended for programmers who are familiar with operating environments and reading and writing various shell scripts.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 3.0

Lab hours: 1.0

Prerequisites:

- [ITSC 1316](#) - Linux Installation and Configuration
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ITSC 2325 - Advanced Linux

Provides instruction in advance open-source Linux operating system. Develops directory services for clients, support users remotely, and install and configure network services.

Grade Basis: L

Credit hours: 3.0

Lecture hours: 2.0

Lab hours: 4.0

Prerequisites:

- [ITSC 1316](#) - Linux Installation and Configuration
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Grayson College

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