

CAREERS IN CYBERSECURITY



Green River Academic Advisor

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MAKE WAVES.

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Start at Green River College

Earn your Associate in Applied Science – Transfer (AAS-T) in Information Technology- Systems and Security to prepare you for mid-level positions.

Mid-level Positions

- Computer Support Specialist
- Network Support Specialist
- Information Security Specialist
- Network and Computer Systems Administrator
- Other Computer/IT Occupations

Continue with Western

Continue with Western Washington University to earn Western's Cybersecurity Bachelor of Science degree. This two year program will prepare you to fill the urgent need for trained professionals in advanced computer information positions.

Advanced Positions*

- Information Systems Security Developer
- Secure Software Assessor
- Cyber Defense Analyst
- Vulnerability Assessment Analyst
- Systems Security Analyst
- Cyber Security Manager

**Positions are mapped from the NIST NICE Cybersecurity Workforce Framework*

Occupational Outcomes

88% of cybersecurity job postings specify that a bachelor's degree is a minimum requirement to apply and cybersecurity workers can command an average salary of \$93,540 annually, according to Burning Glass' 2019 Cybersecurity Job Report.

The Cybersecurity unemployment rate is zero percent, and it's expected to remain there until 2021, according to *Cybersecurity Ventures* magazine.

For more information and to start developing the right plan for you, please connect with an academic advisor.



AAS-T in Information Technology – Systems and Security GRC REQUIREMENTS

To be eligible for a transfer to Western's Bachelor of Science in Cybersecurity degree, students must first:

- Complete an AAS-T in Information Technology – Systems and Security from Green River College.
- Complete: CS& 141/CS 145 or IT 219/IT 220; and MATH& 151 or recognized equivalents.
- Achieve a minimum college GPA of 2.5.

Note: Up to 90 quarter credits (listed below) of your AAS-T from Green River College will be transferred towards your Bachelor of Science in Cybersecurity at Western.

CORE REQUIREMENTS

Course ID	Course Title	Credits
IT 114	IT Essentials	5
IT 125	Fundamentals of IPv4 and IPv6	5
IT 131	Introduction to Networks	5
IT 135	CompTIA Security+ Certification Preparation	5
IT 160	Windows Server Administration I	5
IT 190	Introduction to Linux	5
IT 201	Database Fundamentals	5
IT 210	Routing and Switching Essentials	7
IT 224	Windows Automation and Scripting	5
IT 240	Windows Server Administration II	5
IT 244	CompTIA Cloud+ Certification Preparation	5
IT 245	Windows Server Administration III	5
IT 293	System Analysis and Troubleshooting	5

GENERAL EDUCATION REQUIREMENTS

GR Course	Credits	WWU Course Equivalent	Credits	GUR
ENGL& 101	5	ENG 101	5	ACOM
ENGL, CMST, & PHIL	15			
MATH& 151*	5	MATH 124	5	MSAT
CS& 141/CS 145* or IT 219/IT 220*				

*These courses are not required for GRC's AAS-T degree, however they are an eligibility requirement for admittance into Western's Cybersecurity program.

Consult a GRC Academic Advisor to create an individual plan to complete your AAS-T.



Bachelor of Science (B.S.) - Cybersecurity WESTERN REQUIREMENTS

Program requirements: 180 Credits, with a minimum of 60 credits upper division courses. Includes 90 credits from the Green River College AAS-T and the following WWU requirements:

REQUIRED CYBERSECURITY COURSES

Course ID	Course Title	Credits
CISS 247	Computer Systems I	5
CISS 301	Formal Languages and Functional Programming	5
CISS 340	Database Concepts	3
CISS 346	Secure Software Development	4
CISS 360	Operating Systems Concepts	3
CISS 461	Computer Security	4
CISS 470	Policy, Compliance, & Risk	4
CISS 471	Cyber Privacy, Ethics & Abuse	4
CISS 491	Cybersecurity Capstone Project I	2
CISS 492	Cybersecurity Capstone Project II	2
CISS 493	Cybersecurity Capstone Project III	2

REQUIRED SUPPORT COURSES

Course ID	Course Title	Credits
ENG 302	Introduction to Technical Writing	5
MATH 125	Calculus & Analytic Geometry II	5
MATH 341	Probability / Statistical Inference	4

PROGRAM ELECTIVES (choose two courses)

Course ID	Course Title	Credits
CISS 349	Computer System Administration	4
CISS 421	Computer Forensics	4
CISS 422	Dynamic Analysis of Software	4
CISS 423	Software Reverse Engineering	4
CISS 464	Penetration Testing	4
CISS 469	Advanced Network System Security	4
CISS 478	Cryptographic Techniques	4

GENERAL UNIVERSITY REQUIREMENTS

Course Title	Credits
Communications	1 course
Humanities	12 credits
Social Sciences	12 credits
Comparative Gender & Multicultural Studies	2 courses
Natural Sciences	1 course
Lab Science I - BIOL 204, or CHEM 161, or PHYS 161	5 credits
Lab Science II - BIOL 205, or CHEM 162, or PHYS 162	5 credits

University graduation requirements may vary, depending on previous completed coursework. Consult a WWU Academic Advisor to create an individual plan to complete your BS in Cybersecurity.