

CyberSecurity

Associate's Degree

Program Provider: Pima Community College

Total Program Credits: 61-62

Program Major Code: AASCYB/CYB

www.pima.edu/cybersecurity-aas



Program Details

Prepare for careers in the rapidly expanding field of cybersecurity. Learn a variety of cyber tools, events analysis, and threat mitigation techniques based on a strong foundation in systems, networking, and security. This program will enable you to respond to crises and rapidly resolve cybersecurity incidents. The Associates of Applied Science Cybersecurity program is a validated Program of Study through the NSA Center of Academic Excellence Program.

Skills Gained

- **Threat Identification and Analysis**
Develop the ability to identify and analyze a variety of cyber threats, including malware, network attacks, and social engineering tactics.
- **Vulnerability Assessment**
Gain expertise in conducting vulnerability scans and recognizing security weaknesses. Identify potential points of exploitation in systems and networks, allowing for proactive threat mitigation.
- **Incident Response and Crisis Management**
Design and implement incident recognition and response models, including those for cloud services
- **Data Analysis for Cyber Intelligence**
Accurately source and analyze data for use in intelligence, assessment, and planning products.

Career Options/Outcomes

Graduates with a degree in CyberSecurity have a range of career options and outcomes available to them due to the growing demand for cybersecurity professionals.

Pre-Requisites/Placement

Designed for students who have completed prerequisites and have met college preparatory requirements in math, writing and reading.

Academic Options

This program may apply toward a Bachelor of Applied Science (BAS). See an advisor for more information.

Semester Pathway

This pathway is a suggested sequence of courses for your program of study. Work with an advisor to develop a unique pathway for you based on your placement recommendations, any prior college courses, and your specific situation. The courses listed reflect the minimum requirements for this program.

Semester 1 (Total: 16 credits)

CTE	Mathematics or Science (MAT 106 or higher)	3 credits
CTE	Options Category (CMN 120 - recommended)	3 credits
CIS 103	Microsoft Windows Operating System Professional Admin	3 credits
CIS 136	Computer Hardware Components	3 credits
CIS 137	Introduction to the Linux Operating System	3 credits
STU 100	College Success and Career Planning	1 credit

Semester 2 (Total: 15 credits)

CTE	Communication (WRT 101 - recommended)	3 credits
CTE	Social & Behavioral Science (ECN 150 - recommended)	3 credits
CIS 119	Network Essentials	3 credits
CIS 188	Scripting for Automation	3 credits
CIS 227	Cyber Law and Ethics	3 credits

Semester 3 (Total: 15 credits)

CTE	Arts & Humanities (PHI 101 - recommended)	3 credits
CIS 216	Introduction to Wireshark and Network Analysis	3 credits
CIS 221	Deploying and Managing Windows Servers	3 credits
CIS 225	Linux System and Network Administration	3 credits
CIS 228	Fundamentals of Network Security	3 credits

Semester 4 (Total: 15-18 credits)

CTE	CIS elective 200 or above (3 credits) or STU 210UT (2 credits)	2-3 credits
CIS 219	Introduction to Cloud Computing	3 credits
CIS 234	Project Management	3 credits
CIS 245	Cyber Defense	3 credits
CIS 247	Ethical Hacking I	3 credits
CIS 284	Information Technology Capstone	1-3 credits