

Associate of Applied Science (AAS) Cybersecurity Operations Support AAS

a. Program Description

The Cybersecurity Operations Support Associate of Applied Science (AAS) builds the technical foundation that employers require for entry-level IT support and security-adjacent roles, with a curriculum designed to prepare students for a realistic first step into the cybersecurity field, and a clear development path toward Security Operations Center (SOC) work over time. The embedded first-year Certificate prepares students to enter the workforce immediately in vital IT support, help desk, and network administration roles.

The second year elevates these foundational skills, immersing students in advanced defensive operations. Students engage in hands-on, scenario-based learning to master vulnerability management, enterprise digital forensics, cloud security architecture, and incident response. By integrating programming (Python and SQL) with applied security frameworks, graduates learn how to detect, hunt, and remediate cyber threats. While some exceptional graduates may transition directly into junior Security Operations Center (SOC) roles—often facilitated by the program's Cooperative Work Experience (CWE)—the AAS is primarily designed to fast-track IT professionals into specialized roles such as SOC Analyst, Incident Responder, and Cloud Security Specialist after gaining initial, real-world IT operational experience.

b. Program Curriculum

First Year		
Fall Term		Credits
CS-122	Personal Cybersecurity Fundamentals	2.00
CS-140	Introduction to Operating Systems	4.00
CS-160	Computer Science Orientation	4.00
CS-161	Computer Science I	4.00
Winter Term		
CS-123	Scripting for Security Operations	4.00
CS-132	Introduction to Cybersecurity	4.00
CS-151	Networking 1	4.00
CS-240W	Windows Desktop Administration	3.00
Spring Term		
CS-152	Networking 2	4.00

CS-172	Foundations of Security Operations	4.00
CS-173	Introduction to Security Logs and Threat Detection	4.00
CS-240L	Linux Administration 1	4.00
Summer Term		
CS-280	Computer Science/CWE	3.00
CWE-281	Cooperative Work Experience Seminar	0.00
WR-101	Workplace Writing	4.00
or WR-227Z	or Technical Writing	
Human Relations requirement		3.00-4.00
Second Year		
Fall Term		
CS-153	Networking 3	4.00
CS-192	Vulnerability Management Fundamentals	4.00
CS-212	Incident Response Foundations	4.00
Winter Term		
CS-182	Intro to Cloud Computing	4.00
CS-222	Enterprise Digital Forensics	4.00
CS-275	Database Design	3.00
PE/Health/Safety/First Aid requirement		1.00
Spring Term		
CS-170	Python Programming	4.00
CS-232	Applied Security Frameworks in Security Operations	4.00
CS-242	Advanced Incident Response Operations	4.00
Summer Term		
CS-280	Computer Science/CWE	3.00
CWE-281	Cooperative Work Experience Seminar	0.00
Total Credits		94-95

Human Relations Requirement List

Code	Title	Credits
Business		
BA-285	Human Relations in Business	4.00
Criminal Justice		
CJA-250	Reporting, Recording & Testifying	4.00
Education		
ECE-258ES	Equidad y Diversidad en La Educación Infantil	4.00
ED-258	Culturally Responsive Education	3.00
Human Services		
HD-161	Multicultural Awareness	3.00
HS-156	Conducting Human Service Interviews	3.00
Oral Communication		
COMM-100ESZ	Introducción a la Comunicación	4.00
COMM-100Z	Introduction to Communication	4.00
COMM-111ESZ	Hablando en publico	4.00
COMM-111Z	Public Speaking	4.00
COMM-126	Intro to Communication, Gender, and Sexuality	4.00
COMM-140	Introduction to Intercultural Communication	4.00
COMM-218Z	Interpersonal Communication	4.00
COMM-219	Small Group Discussion	4.00
COMM-227	Nonverbal Communication	4.00
Psychology		
PSY-101	Human Relations	3.00
PSY-215	Introduction to Developmental Psychology ¹	4.00

PE/Health/Safety/First Aid requirement

Code	Title	Credits
Health/Safety/First Aid		
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	4.00
FRP-255	Physical Fitness and Nutrition for First Responders	2.00
HOR-115	Horticulture Safety	1.00
HP-100	Healthcare Provider BLS/CPR, First Aid/Bloodborne Pathogens	1.00
MFG-107	Industrial Safety & First Aid	3.00

Any HE prefixed course

Physical Education

Any HPE prefixed course

Any PE prefixed course