

ASSOCIATE IN APPLIED SCIENCE

Cybersecurity

CYB.AAS

CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
First Year/First Semester			Second Year/First Semester		
ENG-101	English Composition I	3	CRJ-120	Homeland Security	3
CIS-181	Linux/Unix Essentials	3	CSC-171	Introductory Python Programming	3
CST-103	Microcomputer Operating Systems I: Workstations	3	CST-201	Advanced Networking	3
CRJ-101	Administration of Justice	3	CST-210	Digital Forensics and Investigations	4
MTH-100	Algebraic Concepts	4	CST-109	Upgrading and Repairing PC's	3
		16			16
Second Semester			Second Semester		
ENG-102	English Composition II	3	CST-204	Computer and Network Security	3
CIS-285	Linux Networking and Security	3	CST-220	Ethical Hacking and Penetration Testing	4
CIS-238	Database Security and Protection	3	Laboratory Science General Education Elective	4
CST-102	Intro to Networking	3	Diversity: Humanities General Education Elective or	
MTH-111	Intro to Statistics	3	Diversity: Social Science General Education Elective	3
		15			14
				Total Minimum Credits	61

PROGRAM DESCRIPTION

The Cyber Security program is designed to provide an affordable path toward a career in the fast-growing cyber security field, which includes: Network Forensics, Cyber Defense, Network Systems Administration or Systems Security Administration. The degree program utilizes hardware and software systems that align with those currently used in the commercial market. The CYB.AAS program is intended for students who want to enter a career directly after graduating. The curriculum is closely aligned to that of the National Science Foundation's CyberWatch degrees providing a clear path for graduates to transfer to such a program in a four year institution.

PROGRAM GOALS

- Prepare students for entry level positions in the cyber security field.
- Prepare students for certifications in the cyber security area including: CompTIA certification exams, including Network+, and Security+ certifications, and Cisco CCENT Certification.

PROGRAM STUDENT LEARNING OUTCOMES

At the end of the program, the graduate will be able to:

1. Conduct digital forensics investigations and to investigate potential security breaches of computer data.
2. Examine professional and ethical codes of conduct with respect the cyber forensics.
3. Identify security risks and summarize possible remedies.
4. Develop solutions for networking and security problems, balancing business concerns, technical issues and security.

EMPLOYMENT OPPORTUNITIES

- Information Security Engineer
- Computer Forensics
- Data Scientist
- Information Assurance Specialist
- Security Specialist

CONTACT PERSON

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Highlights

Median salary of \$45.95 per hour in the surrounding 14 counties.

Job growth is expected to be 37% from 2012-2022 according to the Bureau of Labor Statistics nationally

PROGRAM BEGINNING SPRING 2019 PENDING NJ STATE APPROVAL.