Cybersecurity, Associate of Applied Science

2026-2027 Catalog

Program Overview

The Associate of Applied Science in Cybersecurity prepares students for entry-level careers protecting computer systems, networks, and digital information from evolving cyber threats. Through hands-on coursework, students develop technical skills in networking, operating systems, ethical hacking, digital forensics, risk management, incident response, and security operations while learning to apply industry best practices. The program also emphasizes professional communication, ethical decision-making, and the responsible use of emerging technologies, including artificial intelligence. Graduates will be prepared to analyze security risks, implement defensive solutions, investigate security incidents, and support organizational cybersecurity efforts in a variety of business, government, and industrial settings. The curriculum aligns with current workforce needs and provides a strong foundation for industry certifications and continued professional growth.

- Total Credit Hours Required: 60
- Program Length: 2 years
- Delivery Format: Face-to-Face and Online
- Credentials Awarded: Associate of Applied Science in Cybersecurity
- ADHE Degree Code: 3335
- CIP Code: 11.1003

Fall Term 1

Course ID	Course Name	Credit Hours	Notes
CPSI 17503	Programming I	3	
CPSI 10803	AI Foundations	3	
CPSI 28203	Operating Systems	3	
ENGL 10103	Composition I	3	
CSEC 11033	Cybersecurity I	3	
	Term Total	15	

Spring Term 1

Course ID	Course Name	Credit Hours	Notes
ENGL 10203	Composition II	3	
CSEC 12203	Cybersecurity II	3	*Pre-Req Cybersecurity I
CPSI 12003	AI Operations	3	*Pre-Req AI Foundations
MATH 11003	College Algebra	3	
CSEC 21003	Network Security	3	*Pre-Req Cybersecurity I
	Term Total	15	

Curriculum Approved:
Updated:

Fall Term 2

Course ID	Course Name	Credit Hours	Notes
CSEC 23003	Industrial System Security	3	
CSEC 22033	Access Control	3	
CSEC 21403	Incident Response	3	
ITEC 12033	Ethics in Technology	3	Online
HIST 21103 HIST 21203	U.S. History I or U.S. History II	3	
	Term Total	15	

Spring Term 2

Course ID	Course Name	Credit Hours	Notes
CSEC 20303	Digital Forensics	3	*Pre-Req Cybersecurity I & Programming I
PSCI 20003	American Government	3	
CSEC 21303	Applied Cryptography	3	*Pre-Req Cybersecurity II
CSEC 24003	Industrial Cyber Defense	3	
CSEC 20013	Cybersecurity Clinic	3	*Pre-Req Cybersecurity I
	Term Total	15	

Arkansas Course Transfer System (ACTS)

The Arkansas Course Transfer System (ACTS) contains information about the transferability of courses within Arkansas public colleges and universities. Courses not having an ACTS number may also transfer. Please consult the receiving institution for complete transfer information. To review the Arkansas Course Transfer System, visit https://adhe.edu/students-parents/transfer-info-for-students.

Curriculum Approved:
Updated:

Stackable Credentials

Cybersecurity, Certificate of Proficiency (1 year)

ADHE Degree Code: 1335
CIP Code: 11.1003

Course ID	Course Name	Credit Hours	Notes
CPSI 17503	Programming I	3	Fall
CSEC 11033	Cybersecurity I	3	Fall
CSEC 12203	Cybersecurity II	3	Spring
CSEC 21003	Network Security	3	Spring
	Total Credit Hours for Certificate of Proficiency	**12**	

Cybersecurity, Technical Certificate (2 years)

ADHE Degree Code: 1113
CIP Code: 11.1003
For the Technical Certificate students will complete the above Certificate of Proficiency Cybersecurity courses (12 credit hours) plus the following TC courses.

Course ID	Course Name	Credit Hours	Notes
CSEC 20303	Digital Forensics	3	Spring
CSEC 21303	Applied Cryptography	3	Spring
CPSI 28203	Operating Systems	3	Fall
CSEC 22033	Access Control	3	Fall
CSEC 21403	Incident Response	3	Fall
CSEC 20013	Cybersecurity Clinic	3	Spring
	Total Credit Hours for Technical Certificate	**30**	

AI, Certificate of Proficiency (1 year)

ADHE Degree Code: 1426
CIP Code: 11.0102

Course ID	Course Name	Credit Hours	Notes
CPSI 17503	Programming I	3	Fall
CPSI 10803	AI Foundations	3	Fall
CPSI 12003	AI Operations	3	Spring
ITEC 12033	Ethics in Technology	3	Fall
	Total Credit Hours for Certificate of Proficiency	**12**	

Cyber Informed Engineering, Certificate of Proficiency (1 year)

ADHE Degree Code: 0761
CIP Code: 14.2701

Course ID	Course Name	Credit Hours	Notes
CSEC 23003	Industrial System Security	3	Fall
CSEC 24003	Industrial Cyber Defense	3	Spring
	Total Credit Hours for Certificate of Proficiency	**6**	

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Cybersecurity, Associate of Applied Science (2 years)
ADHE Degree Code: 3335
CIP Code: 11.1003
AAS students will complete the above Certificate of Proficiency courses and Technical Certificate courses (45 credit hours) plus the following courses.

Course ID	Course Name	Credit Hours	Notes
ENGL 10103	Composition I	3	
ENGL 10203	Composition II	3	
MATH 11003	College Algebra	3	
PLSC 20003	American Government	3	
HIST 21103 HIST 21203	U.S. History I or U.S. History II	3	
	Total Credit Hours for AAS Cybersecurity	**60**	

Fall Semester Courses

Course ID	Course Name	Credit Hours	Notes
CPSI 17503	Programming I	3	Fall
CSEC 11033	Cybersecurity I	3	Fall
CSEC 22033	Access Control	3	Fall
CSEC 21403	Incident Response	3	Fall
CPSI 10803	AI Foundations	3	Fall
CSEC 23003	Industrial System Security	3	Fall
ITEC 12033	Ethics in Technology	3	Fall

Spring Semester Courses

Course ID	Course Name	Credit Hours	Notes
CSEC 12203	Cybersecurity II	3	Spring
CSEC 21003	Network Security	3	Spring
CSEC 20303	Digital Forensics	3	Spring
CSEC 21303	Applied Cryptography	3	Spring
CPSI 28203	Operating Systems	3	Spring
CSEC 20013	Cybersecurity Clinic	3	Spring
CSEC 24003	Industrial Cyber Defense	3	Spring
CPSI 12003	AI Operations	3	Spring

Curriculum Approved:
Updated: