



## THE ASSOCIATE OF APPLIED SCIENCE (A.A.S.)

The Associate of Applied Science Degree is designed for employment purposes, and it should not be assumed that the degree or the courses in the degree can be transferred to another institution. While a few institutions have recently begun to accept some courses in A.A.S. programs, the general rule is that courses in the A.A.S. degree are not accepted in transfer toward bachelor's degrees. Students to whom transfer is important should get assurance in writing in advance from the institution to which they wish to transfer and be aware that they may be required to complete additional lower-division courses to meet specified prerequisite course requirements for their chosen baccalaureate degree program upon Arkansas public university transfer.

**ATTENTION STUDENTS: PLEASE SEE CURRENT CATALOG FOR ALL FEES AND CHARGES ASSOCIATED WITH THIS DEGREE.**

### DEGREE PLAN ASSOCIATE OF APPLIED SCIENCE IN CYBERSECURITY

**Degree Code: 0151 CIP Code: 11.1003**

The program is designed for those students seeking career-oriented skills who can identify, assess, and manage cybersecurity threats. The two-year degree prepares students to defend computer operating systems, networks, and data from cyber-attacks.

#### Student Learning Outcomes for A.A.S. Cybersecurity Program

The Associate of Applied Science in Cybersecurity prepares graduate for entry-level employment and advancement. Students simulate real-world cybersecurity threat scenarios and create opportunities for ethical hacking, security monitoring, analysis and resolution. Students configure and use threat detection tools, perform data analysis and interpret the results to identify vulnerabilities, threats and risks to an organization. The program emphasizes the practical application of the skills needed to maintain and ensure secure operational readiness of systems within an organization.

1. Be employable as an associate security analyst, incident responder, network security analyst, or cybersecurity risk analyst.
2. Implement data confidentiality, integrity, availability and security controls on networks, servers, and applications.
3. Develop security principles and policies that comply with cybersecurity laws.
4. Demonstrate critical thinking, complex problem solving, and collaboration.

Students completing the general education core at ASUMH will have demonstrated a proficiency in the following skills:

5. Applications of Math and the Natural Sciences appropriate to degree or field of study.
6. Composition and Oral Communication.
7. Evaluation of diverse perspectives and cultures through Arts, Humanities, and Social Sciences.
8. Utilization of technology appropriate to degree or field of study.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Advisor: \_\_\_\_\_

Student ID# \_\_\_\_\_

<u>COURSE CODE</u>	<u>COURSE NAME</u>	<u>CREDIT HOURS</u>	<u>HOURS COMPLETED</u>
<b>General Education Requirements (18 credit hours)</b>			
BUS 2563	Business Communications	3	_____
CIS 1203	Introduction to Computers	3	_____
ENG 1003	Composition I (must earn a "C" or better)	3	_____
ENG 1013	Composition II (must earn a "C" or better)	3	_____
MATH 1113	Applied Math or higher-level mathematics course	3	_____
POSC 2103	United States Government	3	_____
<b>Business and Computer Core (12 credit hours)</b>			
CIS 1023	Programming Fundamentals/Logic	3	_____
CIS 1103	Networking Concepts	3	_____
CIS 1513	Object-Oriented Programming	3	_____
CIS 2723	Cybersecurity Essentials	3	_____
<b>Cybersecurity Content (30 credit hours)</b>			
BUS 2843	Project Management	3	_____
CIS 1106	CISCO Network Academy I	6	_____
CIS 1206	CISCO Network Academy II	6	_____
CIS 2683	Computer Forensics	3	_____
CIS 2463	Linux	3	_____
CIS 2913	Ethical Hacking	3	_____
CRJ 2243	Cybersecurity Law and Ethics	3	_____
POSC 1003	Introduction to International Relations	3	_____

**Program Total 60 Hours**