Certificate programs provide interested students a credential for successfully completing a particular set of courses in conjunction with any major.

Certificates may be earned in addition to a degree or as a stand-along program of study for students who have already earned a degree. Certificates are intended to encourage and document focused study of a particular area of interest.

Completed cyber certificates appear as part of a student's transcript to provide a documented credential of this study. Certificates should not be confused with professional certifications awarded by bodies outside the university, although certificates can be a good steppingstone to obtaining professional certifications.

Certificate: Cyber Defender		
The goal of the Cyber Defender certificate program is to prepare certificate earning graduates for entry-level information technology positions such as system administration, entry-level Security Operation Center (SOC) security analyst, etc. To earn the Cyber Defender Certificate students must complete the following courses with grades of "C" or better.		
REQUIRED COURSES	**CREDIT HRS**	**GRADE**
AIST 2120 – Principles of Scripting & Automation	3	
CSCI 1301 – Principles of Computer Programming I	3	
CSCI 2700 – Ethics in Computer Science	3	
CYBR 2600 – Introduction to Networking & Cyber Security	3	
CHOOSE TWO OF THE FOLLOWING COURSES	**CREDIT HRS**	**GRADE**
AIST 3320 – TCP/IP Protocol Analysis	3	
AIST 3720 – Operating System Concepts & Administration	3	
CYBR 3100 – Introduction to Defensive Cyber Operations	3	
CYBR 3200 – Cyber Network Defense & Counter Measures	3	
CYBR 4400 – Digital Forensics	3	

Total hours for Cyber Defender Certificate: 19 hours

Certificate: Advanced Cyber Defender		
The goal of the Advanced Cyber Defender certificate is to arm graduates with the specific, core skills needed to be successful in entry-level cybersecurity positions, such as network defense monitoring and penetration testing. To earn the Advanced Cyber Defender Certificate students must complete the following courses with grades of "C" or better.		
REQUIRED COURSES	**CREDIT HRS**	**GRADE**
AIST 2120 – Principles of Scripting & Automation	3	
AIST 3320 – TCP/IP Protocol Analysis	3	
AIST 3410 – Database Management Systems *OR* CSCI 3410 – Database Systems	3	
AIST 3720 – Operating System Concepts & Administration	3	
AIST 4720 – Enterprise System Architectures	3	
CSCI 1301 – Principles of Computer Programming I	3	
CSCI 2700 – Ethics in Computer Science	3	
CYBR 2600 – Introduction to Networking & Cyber Security	3	
CYBR 3100 – Introduction to Defensive Cyber Operations	3	
CYBR 3200 – Cyber Network Defense & Counter Measures	3	
CYBR 4400 – Digital Forensics	3	
MATH 1401 – Elementary Statistics	3	
MINF 2650 – Principles of Data Management *OR* CSCI 3400 – Data Structures	3	

Total hours for Advanced Cyber Defender Certificate: 39 hours