

ARTIFICIAL INTELLIGENCE FOR CYBERSECURITY SYSTEMS CERTIFICATE IN APPLIED SCIENCE

Overview

The Artificial Intelligence for Cybersecurity Certificate program has an anticipated start date of 2026FA pending State Tech System and DOE approvals.

Program Description

The embedded **Artificial Intelligence for Cybersecurity Systems Certificate** prepares students to work in cybersecurity environments that incorporate artificial intelligence. The certificate focuses on core cybersecurity concepts, including networking, operating systems, and incident response, while introducing AI-enabled tools used for security monitoring, threat detection, and response support. Students gain hands-on experience with AI-assisted cybersecurity systems, preparing them for entry-level roles that support security operations or for continued study within the Artificial Intelligence for Cybersecurity Systems associate degree concentration.

Mission Statement

The mission of the Artificial Intelligence for Cybersecurity Systems Certificate is to prepare students with the foundational knowledge and practical skills needed to support cybersecurity environments enhanced by artificial intelligence. The program emphasizes core cybersecurity concepts, including networking, operating systems, and incident response, while introducing AI-enabled tools used for security monitoring, threat detection, and response support. Graduates are prepared for entry-level roles supporting security operations or for continued study within the Artificial Intelligence for Cybersecurity Systems associate degree concentration.

Entrance Requirements

High school diploma or GED.

Type of Program

Day, Evening, and Online

Requirements for Completion

Students must receive a grade of "C" or higher in program courses, concentration courses, corequisites, and prerequisites in order to be eligible for graduation.

Employment Opportunities

Graduating with an AI certificate opens doors to diverse career opportunities in both technical and non-technical fields. Students can pursue roles such as AI project coordinator or business analyst in industries like healthcare, finance, manufacturing, and technology. Additionally, the certificate can enhance employability for positions that require AI literacy, such as marketing analytics, operations optimization, and product development.

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Recommended Program Schedule

Listed below is a recommended sequence of courses. This plan is intended to be flexible and may be completed on a less-than-full-time basis, including three-quarter-time or half-time enrollment, to accommodate working professionals. Course availability and individual circumstances may affect scheduling, and not all courses are offered every semester. Students are encouraged to consult with an advisor to develop a personalized plan of study.

Preferred Sequence

First Semester		Hours
CPT 123	Introduction to Artificial Intelligence	3
CPT 257	Operating Systems	3
IST 220	Data Communications	3
Total Semester Hours		9
Second Semester		
CPT 128	Practical AI Tools and Techniques	3
CYB 110	Introduction to Cybersecurity	3
IST 266	Internet and Firewall Security	3
Total Semester Hours		9
Third Semester		
CPT 130	AI in Everyday Life and Industry	3
CYB 201	Cybersecurity Operations	3
CYB 294	Incident Response (Blue Teaming)	3
IST 190	LINUX Essentials	3
Total Semester Hours		12
Total Required Credit Hours		30