

# INFORMATION SECURITY AND CYBER DEFENSE CERTIFICATE OF ACHIEVEMENT

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A comprehensive introduction to the principles of Information Assurance, Information Systems Security, and Cyber Defense. Program content and outcomes are aligned with industry certifications and the recommendations of the National Security Administration/US Department of Homeland Security. Includes practical experiences with the application of Information Assurance principles to Systems and Network Administration.

Code	Title	Units
<b>Required Courses:</b>		
CIT 101	Introduction to Computer Literacy	3
CIT 110	Information and Communications Technology Essentials	4
CIT 155	Systems and Network Administration	3
CIT 160	Introduction to Information Systems Security	3
CIT 232	Computer Network Fundamentals	3
<b>Computer Programming - One course from the following:</b>		
CS 120	Introduction to Visual Basic.NET	3-4
or CIT 215	Database Management Systems	
<b>Statistics - One course from the following:</b>		
ECON 208	Business and Economic Statistics	4
or MATH 108	Introduction to Probability and Statistics	
<b>Total Units</b>		<b>23-24</b>

*Students working for certificates must have a basic knowledge of arithmetic, reading and writing in order to learn and work in the occupations they select.*

***This is a Gainful Employment Program***

## Program Learning Outcomes

**At the completion of this program, students will be able to:**

- Attain Industry recognized certification(s) such as EC Council Certified Ethical Hacker, Cisco Certified Network Associate - Security, or CompTIA Security+.
- Participate in a Student Cyber Security Competition such as Collegiate.
- Cyber Defense Competition, or National Cyber League.
- Complete a Cyber Security related internship experience.
- Obtain employment part-time or full-time in a Cyber Security related field.