

CSIT 161

Introduction to Information Assurance

3 Credits

Community College of Baltimore County
Common Course Outline

Description

CSIT 161 – Introduction to Information Assurance: is a course that provides an overview of the key principles of information assurance as students explore emerging security topics and trends.

Co-requisites: CSIT 101 or permission of the program coordinator

Overall Course Objectives

Upon completion of this course, students will be able to:

1. define information assurance and related security terms;
2. identify security vulnerabilities, threats, and attacks;
3. discuss security monitoring software tools such as intrusion prevention systems and intrusion detection systems;
4. utilize tools to protect against cyber security threats such as firewalls and virtual private networks;
5. describe legal, ethical, and professional implications in information security;
6. explore risk management strategies;
7. investigate incident response and contingency planning;
8. recognize the importance of physical security;
9. develop an information assurance policy;
10. examine cryptography concepts and methods;
11. apply digital forensics procedures; and
12. identify personnel practices for security in organizations.

Major Topics

- I. Introduction to Information Assurance
- II. Vulnerabilities, Threats, and Attacks
- III. Security Tools
- IV. Legal, Ethical, and Professional Implications in Information Security
- V. Risk Management
- VI. Incident Response and Contingency Planning
- VII. Physical Security
- VIII. Information Assurance Policies
- IX. Cryptography
- X. Digital Forensics
- XI. Personnel Practices for Security in Organizations

The Common Course Outline (CCO) determines the essential nature of each course.
For more information, see your professor's syllabus.

Course Requirements

Grading will be determined by the individual faculty member, but shall include the following, at minimum:

- six assignments
- six quizzes
- one report or project on an emerging information assurance topic
- two exams

Written assignments and research projects: Students are required to use appropriate academic resources in their research and cite sources according to the style selected by their professor.

Other Course Information

Date Revised: 2/6/2024

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