

CUMBERLAND COUNTY COLLEGE

Course: CS 242 Principles of Information and Web Security

Credits: 3

Prerequisites: None

Description:

Examines the field of information security to prepare information systems students for their roles as business decision-makers. A balance of the managerial and technical aspects of the discipline is presented. Information security within real-world context is included in this course.

Learning Outcomes

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

- Identify and discuss the fundamental reasons why information systems security is such a critical element in today's business, government, education, and home technology-based environments;
- Identify and discuss the key information systems security legislative and policy documents that provide guidance in developing an information system security program for an organization (information literacy);
- Review and develop the key elements of an information systems security management program;
- Perform and document a risk-based analysis of information systems security for an organization, to include identification of threats, vulnerabilities, and countermeasures (effective writing);
- Develop a security plan to address the results of the risk assessment (effective writing);
- Research and report on the key technological solutions to achieving information systems security (information literacy, effective writing);
- Identify and discuss the ethical and societal issues related to implementing information systems security programs (civic responsibility).

Topical Outline

- Introduction to Information Security
- The Need for Security
- Legal, Ethical, and Professional Issues in Information Security
- Risk Management: Identifying and Assessing Risk
- Risk Management: Assessing and Controlling Risk
- Blueprint for Security
- Planning for Continuity
- Security Technology

- Appendix: Cryptography
- Physical Security
- Implementing Security
- Security and Personnel
- Information Security Maintenance
- Comprehensive Review

Text:

Principles of Information Security by Whitman & Mattord, 4th edition: Thomson
Student Assessment

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(Assessment may be accomplished through projects, portfolios, exams, presentations and/or papers)

Academic Integrity

Plagiarism is cheating. Plagiarism is presenting in written work, in public speaking, and in oral reports the ideas or exact words of someone else without proper documentation.

Whether the act of plagiarism is deliberate or accidental [ignorance of the proper rules for handling material is no excuse], plagiarism is, indeed, a “criminal” offense.

As such, a plagiarized paper or report automatically receives a grade of **ZERO** and the student may receive a grade of **F** for the semester at the discretion of the instructor.

Tutoring & Project Assist

If you are having difficulty with work in this class tutoring is available through the Center for Academic & Student Success. If you think that you might have a learning disability, contact Project Assist at 856.691.8600 x 1282 for information on assistance that can be provided to eligible students.

Before Withdrawing From This Course

If a student experiences adverse circumstances while enrolled in this course and considers withdrawing, s/he should see an advisor (division or advisement center) BEFORE withdrawing from the class. A withdrawal may cause harmful repercussions to completion rate standards and overall GPA which can limit or eliminate future financial aid in addition to causing academic suspension.