Department:

Risk Management

Course Description:

This course provides a comprehensive overview of information systems security. The course will focus on establishing and managing an information system protection program.

Course Competencies:

Upon completion of the course, the student should be able to:

1. Describe the process of establishing a physical information systems security function in an organization.
2. Describe the steps in developing a physical security plan.
3. Explain the major elements of a physical information systems security plan.
4. Describe the process of developing and documenting the methods and procedures for the physical information systems security plan.
5. Explain the components of an effective testing and auditing program.
6. Describe the steps in managing a response to an incident.
7. Explain the elements of an effective information systems security training program.
8. Describe the types of vulnerabilities in information systems operating systems and the problems they cause.
9. Describe the types of vulnerabilities in information systems applications and the problems they cause.
10. Compare and contrast public domain and commercial off the shelf software, including the merits and disadvantages of each.
11. Describe the effects of Internet use and the increasing reliance of organizations on an infrastructure over which they have no influence.
12. Function well in a diverse work environment.
13. Produce effective written documents relevant to information systems security and loss prevention.

Course Content:

A. Physical Security for Information Systems
   1. Information Security
   2. Identification and Authentication
   3. Authorization and Access Control
   4. Auditing and Accountability
   5. Cryptography
   6. Operations Security
   7. Physical Security
B. Vulnerabilities
   1. Network Security
   2. Operating System Security
   3. Application Security

Learning Assessments:

Course competencies will be assessed by written examinations, a semester team project, problem solving exercises, and a final presentation.

Instructional Materials:

ISBN: 978-0-12-800744-0

Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students must complete the “Disabilities Self-Identification Form” at this link: https://highlandcc.edu/pages/disability-services.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.