MONROE COUNTY COMMUNITY COLLEGE

IAS 103 Information Security Principles

Course Information

Division	Business
Contact Hours	45
Total Credits	3

Co-requisites

CIS 130 Introduction to Computer Information Systems

Course Description

Provides an introduction and overview of information security/assurance for incoming students. This course will enhance technical, communication, problem solving and teaming skills, as they relate to the study of Information Security and Information Assurance. This course will also cover a broad spectrum of pertinent IS/IA base information, including voice and data network connectivity. In addition an introduction to cryptography, intrusion detection systems, data firewalls, malicious software, information operations and warfare, and denial of service attacks, regulations, law and governance.

This course is a required core course for students pursuing an:

AAS in Cybersecurity and Information Assurance
AAS in PC Support Technician
AAS in System Administration Specialist

Program Outcomes Addressed by this Course:

Upon successful completion of this course, students should be able to meet the program outcomes listed below:

Cybersecurity and Information Assurance

Examine and apply the fundamental techniques of computer security.
Identify and explain risk and potential security issues.
Demonstrate responsible computer use as it deals with social, political, legal and ethical issues in today's electronic society.
Demonstrate foundation knowledge of information security/assurance within the organization.
Demonstrate knowledge of the profession, its organizations, goals and leadership roles, literature/publications, issues, and research foundations.
Demonstrate knowledge of security objectives and policy development.

PC Support Technician

Demonstrate a basic understanding of networks and computer security in the business environment.

System Administration Specialist

Examine and apply the fundamental techniques of computer security. Identify and explain potential security issues.

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Course Outcomes
In order to evidence success in this course, the students will be able to:

Cybersecurity and Information Assurance
1. Examine and apply the fundamental techniques of computer security.
   Applies to Program Outcome
      Examine and apply the fundamental techniques of computer security. Identify and explain potential security issues.
2. Identify and explain risk and potential security issues.
   Applies to Program Outcome
      Examine and apply the fundamental techniques of computer security. Identify and explain potential security issues.
3. Demonstrate responsible computer use as it deals with social, political, legal and ethical issues in today's electronic society.
4. Demonstrate foundation knowledge of information security/assurance within the organization.
   Applies to Program Outcome
      Plan for the future and design a solution based on user requirements. Explain business continuity, back up and disaster recovery. Understand troubleshooting and quality consumer support.
5. Demonstrate knowledge of the profession, its organizations, goals and leadership roles, literature/publications, issues, and research foundations.
6. Demonstrate knowledge of security objectives and policy development.

PC Support Technician
1. Examine and apply the fundamental techniques of computer security.
   Applies to Program Outcome
      Demonstrate a basic understanding of networks and computer security in the business environment.
2. Identify and explain risk and potential security issues.
3. Demonstrate responsible computer use as it deals with social, political, legal and ethical issues in today's electronic society.
4. Demonstrate foundation knowledge of information security/assurance within the organization.
5. Demonstrate knowledge of the profession, its organizations, goals and leadership roles, literature/publications, issues, and research foundations.
6. Demonstrate knowledge of security objectives and policy development.

System Administration Specialist
1. Examine and apply the fundamental techniques of computer security.
   Applies to Program Outcome
      Examine and apply the fundamental techniques of computer security. Identify and explain potential security issues.
2. Identify and explain risk and potential security issues.
   Applies to Program Outcome
      Examine and apply the fundamental techniques of computer security. Identify and explain potential security issues.
3. Demonstrate responsible computer use as it deals with social, political, legal and ethical issues in today's electronic society.

4. Demonstrate foundation knowledge of information security/assurance within the organization.
    Applies to Program Outcome
    Plan for the future and design a solution based on user requirements. Explain business continuity, back up and disaster recovery. Understand troubleshooting and quality consumer support.
5. Demonstrate knowledge of the profession, its organizations, goals and leadership roles, literature/publications, issues, and research foundations.
6. Demonstrate knowledge of security objectives and policy development.