



## **CYB-101: Introduction to Information Security**

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### **Description:**

**3 credits/126 hours**

**Prerequisite: None**

This course will introduce the latest trends, developments, and technology within information security. It will provide students with a balanced focus that addresses all aspects of information security, beyond simply a technical perspective. Students will gain a solid foundation in information systems and cyber security.

**Textbook:** Principles of Information Security, 7<sup>th</sup> ed., Whitman & Mattord– ISBN: 978-0-357-50643-1

### **Course objectives:**

Throughout the course, you will meet the following goals:

- Gain a strong foundational understanding of the history of and need for information security
- Be able to explain and implement information technology concepts and processes
- Understand how to complete risk management assessments and build a strong information security plan
- Develop an understanding of the legal and ethical professional issues in information security
- Navigate information security concepts as they pertain to staff and personnel and overall security technology such as access controls, firewalls, and VPNs.

### **Contents:**

Module 1: Introduction to Information Security

Module 2: The Need for Information Security

Module 3: Information Security Management

Module 4: Risk Management

Module 5: Incident Response and Contingency Planning

Module 6: Legal, Ethical, and Professional Issues in Information Security

Module 7: Security and Personnel

Module 8: Security Technology: Access Controls, Firewall, and VPNs

Module 9: Security Technology: Intrusion Detection and Prevention Systems and other Security Tools

Module 10: Cryptography

Module 11: Implementing Information Security

Module 12: Information Security Maintenance

### **Grading Scale**

**A = 95-100%**

**B = 88-94.9%**

### **Grade Weighting**

**Chapter Quizzes..... 50%**

**Activities ..... 20%**

**C = 80-87.9%**  
**D = 70-79.9%**  
**F = Below 70%**

**Final Exam ..... 30%**  
**100%**