

**WILMINGTON UNIVERSITY
COLLEGE OF TECHNOLOGY
BASIC COURSE INFORMATION**

COURSE TITLE: Protecting and Securing the Operating System

COURSE NUMBER: CYB 6010

I. MAJOR INSTRUCTIONAL OBJECTIVES

Objective A: Describe the fundamental concepts of hardware, OS process and types, Network Configurations, Security models that rely on technology, open source business, training and education

- A-1 Identify, analyze, and evaluate infrastructure and network vulnerabilities
- A-2 Develop, assess, and document security policies, practices, and procedures
- A-3 Describe the relationship between OS and computer hardware
- A-4 Describe OS process and types
- A-5 Identify differences between Local OS and Distributed OS

Objective B: Gain knowledge, skill, and ability in the areas of management, acquisition, design, implementation, testing, and testing of security systems

- B-1 Develop OS Cyber Security Incident Response plans
- B-2 Implement OS Cyber Security Incident Response plans

Objective C: Gain an understanding of current and emerging procedures, **emerging tools** and technologies to deal with OS security threats, and learn to focus on internalization and accommodation through research, analysis, evaluation and judgment

- C-1 Identify and assess current threats

Objective D: Learn the fundamentals of the American Psychological Association (APA) format for writing style

- D-1 Cite references in APA format
- D-2 Construct a research manuscript (document) in APA format
- D-3 Document tables and figures, headings, quotations, etc.... in APA format

Objective E: Become familiar with research methods including information retrieval and research methods for network security solutions

- E-1 Access and retrieve information from a variety of electronic databases and other reliable information resources on the World Wide Web (WWW)
- E-2 Construct documented support for group projects and individual research using the retrieved information from the WWW
- E-3 Use library resources to support group projects and individual research

II. CLASS PARTICIPATION:

Students are expected to attend class and participate actively and in a positive way. Questions and relevant observations are encouraged and enrich the experience of the entire class. Computers in the classrooms are intended to be used as tools to enhance the students' learning experience. Instant messaging, gaming, emailing, and surfing the web are distractions to the student, the surrounding students, and the instructor and constitute inappropriate behavior. Students are ethically obliged to avoid these and similar practices.