

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

COURSE TITLE: Operating System and Computer Systems Security

COURSE NUMBER: SEC 330

I. RATIONALE:

This course provides technical knowledge and develops employability skills necessary for success in the business-world of cybersecurity. Instructional Goals are based on NWCET (National Workforce Center for Emerging Technologies) IT Skills Standards and are closely aligned with the President's Critical Infrastructure Protection Board, National Strategy to Secure Cyberspace - http://www.whitehouse.gov/pcipb/cyberspace_strategy.pdf

II. MAJOR INSTRUCTIONAL GOALS:

GOAL 1: Provide Data/Information Assurance

Learning Outcomes: The student will develop data/information assurance plans and implementation strategies.

Learning Activities: Assigned readings, discussion, lab exercises, external assignments

Learning Assessment: Written exams, assignments

GOAL 2: Ensure Infrastructure and Network Security

Learning Outcomes: The student will identify, analyze and evaluate infrastructure and network vulnerabilities.

Learning Activities: Assigned readings, discussion, lab exercises, external assignments

Learning Assessment: Written exams, assignments

GOAL 3: Develop, Manage and Enforce Security Policies

Learning Outcomes: The student will develop, assess and document security policies, practices and procedures.

Learning Activities: Assigned readings, discussion, lab exercises, external assignments

Learning Assessment: Written exams, assignments

GOAL 4: Perform Security Education and Training

Learning Outcomes: The student will identify and assess education and training requirements for all constituents.

Learning Activities: Assigned readings, discussion, lab exercises, external assignments

Learning Assessment: Written exams, assignments

GOAL 5: Develop and Implement Physical Security, Deterrence and Detection

Learning Outcomes: The student will identify and assess current and anticipated security risks and vulnerabilities.

Learning Activities: Assigned readings, discussion, lab exercises, external assignments

Learning Assessment: Written exams, assignments

GOAL 6: Perform System Design and Analysis

Learning Outcomes: The student will evaluate current and emerging tools and technologies.

Learning Activities: Assigned readings, discussion, lab exercises, external assignments

Learning Assessment: Written exams, assignments

III. 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.