WILMINGTON UNIVERSITY
COLLEGE OF TECHNOLOGY
BASIC COURSE INFORMATION

COURSE TITLE: Web and Data Security
COURSE NUMBER: SEC 410

I. MAJOR INSTRUCTIONAL OBJECTIVES:

Objective A: Network Security and Firewalls
A-1: Learn about establishing an effective security policy, identifying different types of hacker activities, understanding the hacker's mind-set, and preventing and managing hacker penetration.
A-2: Learn about authentication procedures, encryption standards and implementations, ports and protocols that hackers manipulate.
A-3: Learn how to engage in proactive detection and response/reporting methods.

Objective B: Operating system security
B-1: Learn about issues such as protecting a current Windows server environment and Linux systems from attacks.
B-2: Learn about reconfiguring the operating system to fully protect it.
B-3: Learn about scanning hosts for known security concerns.
B-4: Have a solid understanding of the security architectures used by a current Windows server environment and Linux.

Objective C: Security auditing, attacks, and threat analysis
C-1: Learn how to perform different phases of a security audit, including how to prevent unauthorized users from controlling company networks.
C-2: Learn how to prevent hackers from controlling your network, and how to generate effective audit reports that can help organizations improve their security and become current with industry security standards.
C-3: Learn how to recommend industry-standard security solutions for your enterprise.

II. SUPPLEMENTAL OBJECTIVES
Will consist of examining Network Security articles and a structured external assignment on constructing a IT Network Security Implementation Plan.

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.