SEC 289
SECURITY CAPSTONE PROJECT

COURSE DESCRIPTION:

Prerequisites: SEC 220
Corequisites: None

This course provides the student the opportunity to put into practice all the skills learned to this point. Emphasis is placed on security policy, process planning, procedure definition, business continuity, and systems security architecture. Upon completion, students should be able to design and implement comprehensive information security architecture from the planning and design phase through implementation. This course is restricted to the Information Systems Security, the Information Systems Security/Security Hardware curriculums. Course Hours Per Week: Class, 1. Lab, 4. Semester Hours Credit, 3.

LEARNING OUTCOMES:

Upon completion of this course, students will be able to:

a. Design, develop, implement, test and document an IT project
b. Use best practices of systems development and project management
c. Participate and contribute as a member of an IT project team
d. Apply learning outcomes of previous security courses to an IT project

OUTLINE OF INSTRUCTION:

I. Six Phases of Project Management
   a. Project Initiation
   b. Project Definition
   c. Project Design
   d. Project Implementation
   e. Project Test
   f. Project Documentation

II. Project Management Components
    a. Team
    b. Goal
    c. Limited Resources
    d. Uncertainty (risk)
    e. Control Factors
       i. Time
       ii. Money
iii. Quality
iv. Organization
v. Information

III. Work Products of Project Management
   a. Defining team roles
   b. Project Charter
   c. Project Plan
   d. Budget and Financial Statement
   e. Action-and-Decision Lists
   f. Issue Logs
   g. Risk Logs
   h. Meeting Reports

IV. Communication and Collaboration Tools
   a. Email
   b. Discussion Board
   c. Instant Messaging, Chat
   d. Audio- and web-conferences
   e. Shared Calendars
   f. Websites
   g. Shared file storage

V. Working in Teams
   a. Creating effective work groups (keys, obstacles, functions)
   b. Elements, issues and diseases work groups face
   c. What to observe in a group
   d. Influence Tactics used in groups
   e. Running effective meetings
   f. Techniques in group decision making
   g. Phases of group development

REQUIRED TEXTBOOK AND MATERIALS:
Text to be assigned by the instructor each semester

STATEMENT FOR STUDENTS WITH DISABILITIES:
Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 919-536-7207, ext. 1413 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1209.