

WAYNE COMMUNITY COLLEGE
Syllabus for SEC 150-40, Secure Communications
Spring 2012, Online

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Course Description:

Class Hours 2, Lab Hours 2, Clinical/Work Experience Hours 0; Semester Hours 3

This course provides an overview of current technologies used to provide secure transport of information across networks. Topics include data integrity through encryption, Virtual Private Networks, SSL, SSH, and IPSec. Upon completion, students should be able to implement secure data transmission technologies.

Prerequisite(s): SEC 110 and NET 110 or SEC 110 and NET 125

Co-requisite(s): SEC 160 (highly recommended)

Required Textbook:

Palmer, Michael, *Guide to Operating Systems Security*. Course Technology Incorporated, 2004, ISBN 0-619-16040-3.

Reynolds, George, *Ethics in Information Technology*, 4th Edition. Course Technology Incorporated, 2012, ISBN 9781111534127.

Other Required Materials/Software

Personal Computer with Windows XP or higher. This semester we will be using the free **VMware Player**, as well as various other security tools that require Administrative privileges on your machine.

A high-speed Internet connection is strongly recommended.

Program Learning Outcomes

While program learning outcomes are being updated, a general overview of the Information Systems Security degree may be found in the WCC College Catalog, which is available in both hardcopy as well as electronic format online.

Course Learning Outcomes

In this course, we will take an in depth look at operating system security concepts and techniques. We will examine theoretical concepts that make the world of security unique. Also, this course will adopt a practical hands-on approach when examining operating system security techniques. Along with examining different security strategies, this course will explore the advancement of security implementation, as well as, timeless problem solving strategies.

Learning/Teaching Methods

The teaching methods utilized during this course include: assigned readings, lectures, student discussions, labs, case materials, Internet assignments, collaborative projects, and presentation of supplemental information.

Course Requirements

It is a remarkable but true fact: I do *not* give a comprehensive midterm or final exam. However, students find my assignments to be extremely challenging. As a result, your grade is largely determined by your ability to apply concepts in the course through programming and design projects.

Assignments	40% of grade
Review Tests (OS Security)	10% of grade
Review Exams (Ethics, Any 6/10)	10% of grade
Milestones (Participation)	10% of grade
Midterm Project	15% of grade
Final Project	15% of grade

Many assignments and readings are exploratory in nature and are not assigned directly from the textbook. Please be aware that missing two consecutive weeks of assignments *may* result in the student being dropped from the course.

Grading Policy/Criteria:

Grades are assigned on a nominal seven-point scale:

A	93 - 100
B	85 - 92
C	77 - 84
D	70 - 76
F	Below 70

With the exception of officially excused absences, late assignments are not accepted. Please make sure that you have allocated adequate time to complete all assignments.

Academic Integrity Statement

See the WCC General Catalog¹. Any student caught violating the WCC Code of Student Academic Integrity Policy, (i.e., cheating, plagiarizing, or other dishonorable acts), in academic work is subject to disciplinary action. Cheating will not be tolerated. Cheating will result in an automatic “F” for the course. In the Business and Computer Technology Division cheating is defined as:

1. Using another student’s diskette to complete an assignment.
2. Allowing another student to use your diskette, or information from your diskette, to complete an assignment.
3. Keying or printing an assignment and giving it to another student.
4. Using unauthorized books, materials, or another person’s assistance while working on any graded assignment.
5. Taking an online test for another student

Students with Disabilities:

WCC is committed to seeing that students with disabilities have equal access to and participation in all programs of study. For further explanation, please note the Students with Disabilities policy in the WCC General Catalog or in the Student Handbook². Students with disabilities can contact the Disability Coordinator, Ms. Deana Holland, in the Student Development Office, Room WLC 114, or call 919-735-5151 x6729 or via e-mail at dbholland@waynecc.edu.

Non-Discriminatory Statement

Wayne Community College is committed to a policy of providing educational opportunities to all students regardless of economic or social status, beliefs, sexual orientation, national origin, or physical or mental disability. WCC’s non-discriminatory statement may be found in the WCC Catalog.

Student Attendance Policy

¹<http://www.waynecc.edu/pdf/catalog.pdf>

²<http://www.waynecc.edu/pdf/student-handbook.pdf>

The College believes students demonstrate responsibility for and commitment to their educational goals through regular attendance; therefore, students must attend 80% of the total hours of any class to receive a passing grade. Instructors will excuse no absences under this policy.

WCC attendance policy allows no more than 20% of scheduled class hours as absences. Three tardies count as one unexcused absence. Students will be counted tardy if they enter class anytime after the scheduled class hour.

Course Outline and Calendar

For a full course outline with due dates, please view the course information and course documents sections of the online Blackboard class. We will cover most of the chapters in the required course textbook.