

PALOMAR COLLEGE FORM VERSION: 5/95
COURSE OUTLINE OF RECORD DATE REVISED: 2/18/99
FOR AA DEGREE CREDIT COURSE

 X Transfer Course X Degree Applicable Course

(Check all that apply)

COURSE NUMBER AND TITLE: CSIS 269 Web Security & E-Commerce

UNIT VALUE: 2

MINIMUM NUMBER OF SEMESTER HOURS: 64

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills.

ENTRANCE REQUIREMENTS:

Prerequisite: CSIS 264

Corequisite: None

Recommended Preparation: None

SCOPE OF COURSE:

This course provides an introduction to the technology that supports **ECommerce** and *web security*.

SPECIFIC COURSE OBJECTIVES: Successful students will be able to:

1. Secure web servers, communications, and browsers
2. Protect your Web client to minimize risks from applets, scripts, and viruses
3. Design a secure eCommerce system
4. Ensure privacy through the use of encryption
5. Ensure authentication through the use of certificates
6. Ensure proper authorization of users
7. Ensure the integrity of the eCommerce web site
8. Create a secure web site

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Introduction
 - A. The Web Security Landscape
- II. User Safety
 - A. Buggy Browsers
 - B. ActiveX and Plug-Ins
 - C. Privacy
- III. Digital Certificates
 - A. Digital Identification Techniques
 - B. Certification Authorities and Server Certificates
 - C. Client-Side Digital Certificates
 - D. Code Signing and Microsoft's Authenticode
 - E. Creating and Installing Web Server Certificates
- IV. Cryptography
 - A. Cryptography Basics
 - B. Cryptography and the Web
 - C. Understanding SSL and TLS
- V. Web Server Security
 - A. Host and Site Security
 - B. Controlling Access to Your Web Server
 - C. Secure Programming
- VI. E-Commerce
 - A. The business of E-Commerce
 - B. The technology of E-Commerce
 - C. E-Commerce System Design
 - D. SSL & SET Protocols
 - E. Secure Email Technology
 - F. Digital Cash
 - G. Digital Payment Systems
 - H. Blocking Software and Censorship Technology
 - I. Civil and Criminal Legal Issues
- VI. Web Site Establishment
 - A. Domain Names
 - B. Developing Forms
 - C. Searchable Catalogues
 - D. Database creation and Management queries
 - E. Data Mining
 - F. Shopping Cart Systems
 - a. Account-based
 - b. Cookie based
 - c. Encoded URLs
 - G. Online Transaction Server
 - H. Customer Tracking
 - a. IP Addresses
 - b. Cookies

REQUIRED READING:

Treese, G. Designing Systems for Internet Commerce. New York: Addison Wesley, 1999.

SUGGESTED READING: None.

REQUIRED WRITING:

Problem solving exercises are assigned, requiring students to complete five or six computer assignments. Each assignment will consist of a hands-on exercise applying theory principles learned in class. Assignments must be well documented (at least one paragraph) in terms of their overall design goals.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short term classes.

There are written homework exercises within each section of each chapter which are assigned, requiring an average of one hour to complete. In addition, numerous computer assignments are assigned, each ranging from one to ten hours to complete by an average student.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

This course may be offered as a distance education course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380. Yes No

If yes, check all that apply:

- Telecourse
- Mediated instruction
- Computer assisted instruction

GRADING POLICY AND STANDARDS (include methods for determining whether the stated objectives have been met by students):

Computer Assignments	45%
Midterm	25%
Final	30%

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes _____ No X Number of times course may be taken for credit 1.

If yes, identify specific provision of Title 5 Division 2 section(s) 55761-55763 and 58161 which qualifies course as repeatable:

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