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# NETWORK SECURITY

CIS 56 (CRN: 43306)  
SPRING 2015

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## COURSE DESCRIPTION

Provides broad-based knowledge and hands-on experience with network security. Security topics include access control, cryptography, policies, physical, network, application, data defenses, auditing and security protocols. Also, course can help prepare students to pass the CompTIA Security+ Certification exam.

## PREREQUISITE SKILLS

Advisory: Computer Information Systems 108.

## INSTRUCTOR INFORMATION: MARK SHERBY



**Office Hours Held:** From **Monday, April 6 to Monday, June 22**  
**Office hours:** Monday, Wednesday 5:00-5:50PM --- Tuesday, Thursday 12:30-1:20PM  
**Phone/Voicemail:** (408) 864-5471  
**Office Location:** F-51D  
**E-mail address:** [Sherbymark@deanza.edu](mailto:Sherbymark@deanza.edu)  
**Website:** [moodle.jblcourses.com](http://moodle.jblcourses.com)

## ATTENDANCE POLICY

Students are required to attend all class meetings every **Monday and Wednesday, 6:00-7:50PM** in **AT 311**. See drop policy below.

## DROP POLICY

1. Students who want to be dropped from the class **MUST** take the initiative to follow the De Anza College drop procedures. Drop calendar deadlines can be found at <https://www.deanza.edu/calendar>. Do not assume you will be automatically dropped from this course. If you intend to drop the course, you must drop yourself!
2. Drop Deadline
  - a. By **WEDNESDAY** OF THE FIRST WEEK OF THE COURSE you must purchase and log into Jones and Bartlett site. We will explore the Jones and Bartlett site during class on Wednesday so you'll need to have purchased your materials in bookstore Wednesday of first week.
  - b. Successfully complete **ALL** the Week 1 **ASSIGNMENTS** in Jones & Bartlett Moodle.

## OBJECTIVES

Upon completion of this course, you will be able to use a personal computer and understand the following personal computer objectives.

- A. Explore network security issues
- B. Investigate access control and identity management
- C. Utilize cryptography
- D. Investigate policies, procedures, and awareness
- E. Identify physical security
- F. Explore perimeter defenses
- G. Explore network defenses
- H. Explore host defenses
- I. Identify application defenses
- J. Identify data defenses
- K. Explore security assessments and audits

## STUDENT LEARNING OUTCOMES FOR THIS COURSE:

Determine methods to protect network against security vulnerabilities.

## REQUIRED COURSE MATERIALS

1. There are **two purchase options** for your Jones and Bartlett course materials (You can **only** purchase these two options through the De Anza bookstore). **Do not purchase these materials below from any other source because they will not include the lab code access and you will have to pay twice.**
  - a. **Bookstore ebook & virtual lab option**
    - i. Purchase your Jones and Bartlett access code in the bookstore - ISBN **9781284087970** (Fundamentals of Information Systems Security, second edition). This is the **least** expensive option and includes an ebook (rather than printed textbook).
  - b. **Bookstore Print book & virtual lab option**
    - i. Purchase your Jones and Bartlett access code in the bookstore - ISBN **9781284077131** (Fundamentals of Information Systems Security, second edition). This is the **more** expensive option but will include a hard cover textbook instead of ebook.
2. **High speed internet connection** (not dial up) required IF you complete lab assignments at home.

## GETTING STARTED IN YOUR COURSE

1. After completing one of the purchase options above, you will need to access [www.jblcourses.com](http://www.jblcourses.com) then click on “**Redeem an Access Code**” as shown below left. Next, you must enter the Lab Access Code (that you purchased in Step 1 above) and the Course Code **2772** as shown below. After clicking “**New User Sign Up**” as shown below, you will be prompted to create a username and password.

The first screenshot shows a navigation menu with four options: 'Redeem An Access Code', 'Log In to Your Existing Account', 'Contact Technical Support', and 'Contact Technical Support'. A red arrow points to the 'Redeem An Access Code' option.

The second screenshot is titled 'Lab Access Code' and provides instructions: Step 1: Obtain a lab access code; Step 2: Type in your lab access code (sample: 98508635); Step 3: Type in your course code (sample: 7462); Step 4: Click the Submit button. Below the instructions are input fields for 'Lab access code' and 'Course code' (containing '2772'), and a 'Submit' button. A red arrow points to the 'Lab access code' field, and another points to the 'Course code' field with the text 'You MUST use this code for our course'. A box above the fields says 'Purchase lab access code at Bookstore'.

The third screenshot shows a 'User name:' and 'Password:' input area with a 'Submit' button. A red arrow points to a link labeled 'New User Sign Up!' below the password field.

2. After you have created your username and password in step above, click “log in to your Existing Account” as shown below to log into jblcourses.com.

The first screenshot is a navigation menu similar to the one in the first screenshot, with a red arrow pointing to the 'Log In to Your Existing Account' option.

The second screenshot is the 'Login' page for Jones & Bartlett Learning. It includes the company logo and the following instructions: Step 1: Enter the user name that you have used to register previously; Step 2: Enter the password that you have used to register previously. Password is case-sensitive; Step 3: Click the Submit button. Below the instructions are input fields for 'User name:' and 'Password:', and a 'Submit' button. A red arrow points to the 'User name:' field, and another points to the 'Password:' field. A link for 'Forgot Password' is located below the 'Submit' button.

## REQUIRED COMPUTER COMPONENTS AND AVAILABILITY

**Hardware Requirements:** A PC computer is required to run the Jones and Bartlett software. If you do not own a PC, you may use our AT 203 lab computers.

**Software:** The only software required for this class in the Jones and Bartlett software using an up-to-date browser as will be discussed in class.

### **Computers in CIS Lab:**

If you need help with your course, you can use our CIS lab computers. For CIS computer lab hours access <http://www.deanza.edu/buscs/lab/hours.html>

## **SUBMITTING WEEKLY LAB ASSIGNMENTS**

This course uses a Moodle website called Jones and Bartlett ([moodle.jblcourses.com](http://moodle.jblcourses.com)). All course information including assignments, homework, course deadlines, etc. will be available to you on-line in your Jones and Bartlett course Moodle web site. When you enter your Jones and Bartlett on-line course, you will see a list of assignments that you will complete. The actual course schedule and due dates for exams and assignments are subject to change.

## **HOMEWORK ASSIGNMENTS**

Homework assignments will include answering multiple choice and true-false quiz questions. Students will have 30 minutes to complete each 20-question quiz. However, quizzes may be retaken an unlimited number of times to improve your score. The highest score will be recorded. No feedback will be given on questions missed during this open book, open notes homework quiz. The final exam will be based on these same homework questions.

## **FINAL EXAM**

The 40-question, multiple choice closed-book, closed-notes Final Exam will be based on the homework questions. Final exam on **Wednesday June 24, 6:15- 8:15 PM**.

## **LAB ASSIGNMENTS**

The required lab assignments can be found in Moodle are counted towards your grade (see below for grading scale). Each lab is due each week as shown in Moodle. You may throw out your lowest scoring lab assignment (one assignment will be dropped).

## **ATTENDANCE/PARTICIPATION**

You must attend lectures and participate in class discussions to receive Attendance/Participation credit. (see below).

## **MOODLE PORTAL**

Jones and Bartlett Moodle must be used as the portal for completing all assignments. To post any discussion questions, use [moodle.jblcourses.com](http://moodle.jblcourses.com). The optional online portion of the class is conducted online and I will be available **Mondays from 10:00AM to 11:15AM** to answer questions you may have in Moodle or through email during this time. However, you are not restricted from asking questions only during this time period. Email me anytime.



other activity not related to the classroom activity. Students who engage in disruptive behavior will be approached by the instructor. If the disruptive behavior continues, students may be asked to leave the classroom and/or eventually be dropped from the course.

### **NOTE TO STUDENTS WITH DISABILITIES**

If you have a disability-related need for reasonable academic accommodations or services in this course, provide your instructor with a Test Accommodation Verification Form (also known as a TAV form) from Disability Support Services (DSS) or the Educational Diagnostic Center (EDC). Students are expected to give five days notice of the need for accommodations. Students with disabilities can obtain a TAV form from their DSS counselor (864-8753 DSS main number) or EDC advisor (864-8839 EDC main number).

### **TECHNICAL DIFFICULTIES**

If you have technical problems with the Jones and Bartlett software on your home computer, please contact Jones and Bartlett Technical Support directly at [www.jblcourses.com/techsupport](http://www.jblcourses.com/techsupport) or call 1-866-601-4525 OR complete your course work using our computers in the AT203 CIS lab.