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# NETWORK SECURITY

**CIS 56 (CRN: 33372)**  
**Winter 2018**  
**100% Online Course**

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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: Complete Computer Information Systems 108.

## INSTRUCTOR INFORMATION: MARK SHERBY



**Online Office Hours Held:** Jan 8 to Thursday, March 22  
**Office hours:** Tuesday, Thursday 12:30-1:20 PM  
**Online Office hours:** Monday, Wednesday 12:30-1:20 PM  
**Phone/Voicemail:** (408) 864-5471  
**Office Location:** F-51D  
**E-mail address:** [Sherbymark@deanza.edu](mailto:Sherbymark@deanza.edu)  
**Website:** <https://deanza.instructure.com>

## 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 Deadlines
  - a. By **Thursday** OF THE FIRST WEEK OF THE COURSE you must purchase and log into Canvas and activate your Jones and Bartlett license as shown in this syllabus below. In a week 1 video, you will explore how to navigate the Jones and Bartlett site so you'll need to have purchased your materials in the bookstore **before** Thursday of first week of the quarter.
  - b. Successfully complete ALL the Week 1 ASSIGNMENTS in Canvas by the end of week 1 (Sunday).

## 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 may have to pay twice.**
  - a. **Bookstore eBook & virtual lab option**
    - i. Purchase your Jones and Bartlett access code in the bookstore - ISBN **9781284154818** (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 **9781284154801** (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.

## CANVAS INSTRUCTIONS

You will be using the Canvas web portal to view video lectures, complete homework, complete labs, complete online exams. You will not be able to log into your course until the first day of instruction.

**Please do not turn off Canvas “Announcements”.** Students who turn off Announcements are responsible for any information they have missed.

To log on to Canvas go to <https://deanza.instructure.com> and then follow the instructions provided to login.

## VIDEO STREAMING INSTRUCTIONS (COURSE LECTURES)

All of the course’s lectures are available for viewing in Canvas. It is highly recommended to view the video lectures multiple times (or rewind) if you are unclear about the material presented. A high speed

Internet connection is needed to view the course's video streams (Video lectures). If you are connecting from home, this means you will need a fiber, cable modem or High speed DSL connection.

## Computers in the CIS Computer Lab: (AT203)

Although most students chose to complete their lab assignments on computers at home, all the lab assignments can be completed using our CIS computer lab computers located in AT203. You can submit your homework into Canvas from these computers after completing the assignments.

You may use the lab's computers any time that the CIS computer lab is open:

**For CIS computer lab hours access <http://www.deanza.edu/buses/lab/hours.html>**

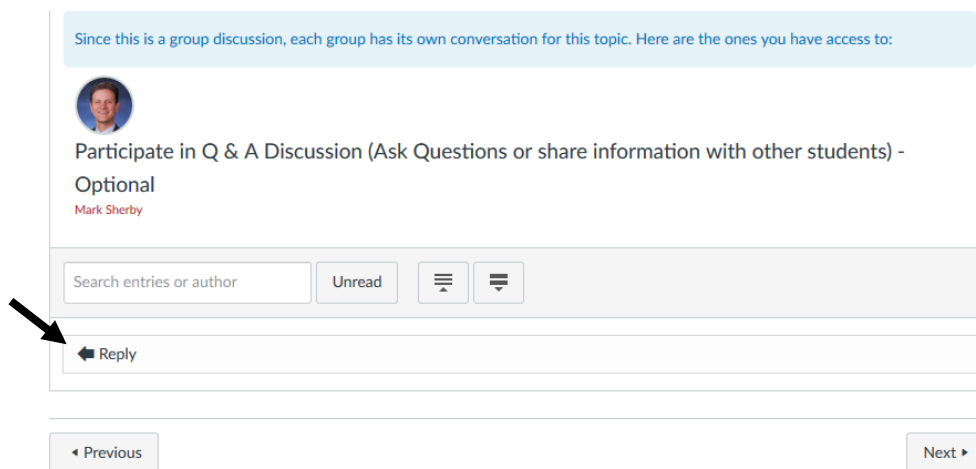
## ACTIVATE YOUR EBOOK AND VIRTUAL CLOUD LABS

After you have purchased your materials in the bookstore and logged into Canvas, you need to activate your labs and ebook by completing the following steps:

1. Activate your ebook: (You will use the course ebook to complete the weekly reading assignments; however, if you purchased the physical textbook in the bookstore, you will use that textbook instead of the ebook.) Follow the instructions found in the VitalSource card you purchased in the bookstore to activate your ebook.
2. Activate your Virtual labs: (You will use the course virtual labs to complete the weekly hands-on lab assignments). Follow the instructions found in the "Cloudlabs" card that you purchased in the bookstore to activate your Canvas weekly course labs assignments. You will enter the code found on the card after clicking the Lab 1 assignment in Week 2.

## GROUP DISCUSSIONS

The "Q & A Discussions" in Canvas provides you a way to communicate with others in the class. Using this forum, you will be discussing homework assignments and may post questions that you have about our course. To participate in these discussions, you will first click on the weekly "Q & A Discussions" links in Canvas. You will read the discussion thread, and then click on the "Reply" area to type in your response (see below). When finished typing your response, you will click the "Post Reply" button (shown below) which will post your response to the other class members through email. This is a very simple tool that will allow us to communicate with each other during the quarter!



Since this is a group discussion, each group has its own conversation for this topic. Here are the ones you have access to:



Participate in Q & A Discussion (Ask Questions or share information with other students) -

Optional

Mark Sherby

Search entries or author Unread

HTML Editor

B I U A A I X X<sup>2</sup> X<sub>2</sub> Paragraph

When are assignments due?

Cancel Post Reply

You can email your instructor directly at [sherbymark@deanza.edu](mailto:sherbymark@deanza.edu). Reply emails will be returned within 48 hours (not including weekends). However, most emails are returned the same working day!

## REQUIRED COMPUTER COMPONENTS AND AVAILABILITY

**Hardware Requirements:** A Windows PC computer or Macintosh is required to run the Jones and Bartlett software using the latest browsers. If you do not own a PC or Mac, you may use our AT 203 lab computers. A Macintosh can work but a PC is optimal for compatibility with the Jones and Bartlett software. Use the Firefox browser when accessing Canvas labs if you are using a Mac.

**Software:** The only software required for this class in the Jones and Bartlett software labs and eBook. You will purchase this software license in the De Anza Bookstore.

### 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>

## POWERPOINT OVERHEADS

PowerPoint overheads that are presented in the class video lectures are available for download directly within Canvas. You may view these PowerPoint overheads before or after viewing the video lectures..

## TESTING AND GRADING

### Scheduled Online Final Exam

The multiple-choice final exam must be completed by logging into Canvas and clicking on the "Final Examination." You will be provided with clear instructions on the Canvas final exam page. You will have two hours to complete the open book, open notes final exam. If you have a schedule conflict with the exam dates, please contact me **prior** to the exam to re-schedule. The final exam is comprehensive covering the entire course. This multiple choice final exam will include questions based on course textbook, Interactive Reading Assignments and Lab Assessment



If a student is found to have cheated or plagiarized on any particular assignment or examination, the student will receive a failing grade for that assignment or examination, and they will be reported to college authorities.

Students may not install or execute unauthorized software on any De Anza college classroom or lab computers or use unauthorized software to connect to or scan any part of the De Anza College's internal, wi-fi or public network. Such unauthorized actions could lead to expulsion from course, program and/or De Anza College.

## **EXTRA CREDIT**

Extra credit may be found listed within Canvas. The maximum total extra credit awarded for this course is 3%.

## **DISRUPTIVE ONLINE BEHAVIOR**

Disruptive online behavior may include (but is not limited to) the following: discussions that do when not relate to the discussion topic, posting inappropriate comments on discussion forum, monopolizing discussion time, refusing to participate in online activities, and engaging in any other activity not related to the classroom activity. Students who engage in disruptive behavior will be notified by the instructor. If the disruptive behavior continues, students may be asked to stop the disruptive behavior 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 lab 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.