

NETWORK SECURITY

CIS 56 (CRN: 11530)

Summer 2015

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. This course can also help students prepare for the CompTIA Security+ Certification exam.

PREREQUISITE SKILLS

Advisory: Computer Information Systems 108.

INSTRUCTOR INFORMATION: JAMES CARR

Office Hours Held: Monday

Office hours: 4:45PM – 5:45PM

Office Location: At 203 or AT 203b

E-mail address: carrjames@fhda.edu

Websites: moodle.jblcourses.com

ATTENDANCE POLICY

Students are required to attend all class meetings every **Monday and Wednesday, 6:00PM-9:50PM** in **AT 205**. 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.
 - 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

There are **two purchase options** for your Jones and Bartlett course materials: (eBook and Lab Access Code) or (Textbook and Lab Access Code) (Both are available in the DeAnza campus bookstore). ***Do not purchase these materials below from any other source because they will not include the lab code access.***

1. Purchase your Jones and Bartlett package in the DeAnza Campus bookstore - ISBN 9781284074413 (Fundamentals of Information Systems Security, second edition).
2. After purchasing your eBook/Lab Access Code or Textbook/Lab Access Code, you will need to access www.jblcourses.com then click on "**Redeem an Access Code**". You must enter the Lab Access Code (purchased in Step 1 above)
3. **High speed internet connection** (not dial up) required if you work at home.

GETTING STARTED IN YOUR COURSE

Follow the instructions emailed to each student: "CIS 56 Summer 2015 Getting Started."

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 (www.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.

ATTENDANCE/PARTICIPATION

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

HOMEWORK ASSIGNMENTS

Homework assignments will include answering multiple choice and true-false quiz questions for the reading assignments. Quizzes may be retaken an unlimited number of times to improve your score. The highest score will be recorded (see below). No feedback will be given on questions missed during open-book, open-notes homework quizzes. The final exam will be based on these same homework questions.

LAB ASSIGNMENTS

The lab assignments in Moodle are counted towards your grade (see below).

FINAL EXAM

A 50-question, multiple choice closed-book, closed-notes Final Exam will be based on the homework questions (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. 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.

TESTING/GRADING POLICIES/FINAL GRADES

To pass this course, you must complete ALL labs, homework quizzes plus Final Exam with the minimum scores shown below. Weekly deadlines for each assignment are posted inside the Jones and Bartlett Moodle web site.

Exams Grading Scale:

A 93% - 100%

A- 90%-92%

B+ 87%-89%

B 83%-86%

B- 80%-82%

C+ 77%-79%

C 70%-76%

D+ 67%-69%

D 63%-66%

Final Grade Mix:

The following percentages reflect how the final grade will be determined:

Attendance/Participation 10%

Homework (Quizzes) 30%

Lab Assignments 30%

Final Exam 30%

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Total= 100%

Academic Integrity:

Students who submit work of others as their own or cheat on exams or other assignments will receive a failing grade in the course and will be reported to college authorities.

DISRUPTIVE CLASSROOM BEHAVIOR

Disruptive classroom behavior may include (but is not limited to) the following: talking when it does not relate to the discussion topic, sleeping, reading other material (e.g. newspapers, magazines, textbooks, from other classes), eating or drinking, monopolizing discussion time, refusing to participate in classroom activities, leaving cell phones and pagers on, texting, and engaging in any 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 or call 1-866-601-4525 OR complete your course work using our computers in the AT203 CIS lab.