

CS53A Cybersecurity Fundamentals

Version 2.2

Spring Quarter 2019

(For both CS53A-01Y and CS53A-02W)

Foothill College

Instructor: W. David Li

COURSE DESCRIPTION

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

PREREQUISITE SKILLS

Know how to use Canvas portal of the course is a must! Canvas Help at <https://foothill.edu/onlinelearning/canvas-info/canvas-help.html>

Security isn't a standalone field. It's helpful to know the basic IT technologies:

- Basic TCP/IP Networking
- Basic use of Windows PC
- Basic use of Linux command lines

INSTRUCTOR INFORMATION: W. DAVID LI

Both In-classroom and online instruction hours: Weds 6 - 9:50pm, 4/8 - 6/28/2019. Rm 4306

Online lab hours: 2 hrs per week

Office hours: 3-5pm Sunday online using ConferZoom.

Please email ahead if you plan to come.

E-mail address: lidavid@fhda.edu (preferred way to communicate)

ATTENDANCE POLICY

No attendance taking required but students are encouraged to attend the class at the class time

REQUIRED COURSE MATERIALS

- For textbook, we will use the textbook by Darril Gibson: **CompTIA Security+ Get Certified Get Ahead: SY0-501 Study Guide 4th Edition.**

Important: each registered student is required to purchase a copy of the book!

- https://www.amazon.com/CompTIA-Security-Get-Certified-Ahead/dp/1939136059/ref=as_li_ss_tl?encoding=UTF8&pd_rd_i=1939136059&pd_rd_r=EK6QHSG2EKQ9RFF2P3K3&pd_rd_w=NpW7P&pd_rd_wg=pd4jX&psc=1&refRID=EK6QHSG2EKQ9RFF2P3K3&linkCode=sl1&tag=mc00-20&linkId=646ca5b4fe6a95bc0891b3eb6cee6e86
- For labs, we will use NetLab at <https://openlab.bayict.cabrillo.edu/classman.cgi>. There is no charge using the labs.
 - For students who don't have a NetLab account, the new account login name is your **FH student ID** and initial password is "**fhcs53a**". Please try to login
 - For students who already have an account, please login and make sure you have been added to the course
 - Please contact me if you have issues logging into your account. As a good security practice please change the initial password if this is your first login

DROP POLICY

Students who want to be dropped from the class MUST take the initiative to follow the Foothill College drop procedures. Drop calendar deadlines can be found at <https://foothill.edu/calendar/spring2019.html>. Do not assume you will be automatically dropped from this course. If you intend to drop the course, you must drop yourself!

Instructor may also drop a student if he or she hasn't purchased the textbook or hasn't logged in the NetLab after the first week!

GETTING STARTED IN YOUR COURSE

1. 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.
2. Please do not turn off Canvas "Announcements". Students who turn off Announcements are responsible for any information they have missed.

WEEKLY INSTRUCTION FORMAT

- This is both an in-classroom and online class. **The online class time is the same as in-classroom class on Weds from 6 - 9:50pm.** The online students can login **ConferZoom in Canvas to watch the class at class time. I will also use ConferZoom to conduct office hours by appointment only.** The lecture video will be available for students to watch when technically possible.
- **Instructor absence:** In case I can't make it to the classroom on the lecture date (e.g. due to travel or sickness etc), the class might be rescheduled and conducted 100% online. I will let everyone know in advance should this occur.

HOMEWORK ASSIGNMENTS

Typically a weekly assignment will have both practice test questions from the textbook and lab exercises.

- Homework assignments includes reading textbook chapters and complete multiple choice practice questions at the end of each chapter. The student is required to answer the chapter practice questions submit an image or picture of the tests in the following format:

The practice paper format example:

Student Name:	Foothill CWID:	Date:
Question Number In the Textbook	Your Answer (w/o looking at the answers from the textbook)	Actual Answer from the TextBook
1	C	D
2	D	D
3	A	A
....

- Weekly homework assignment also includes virtual lab exercises. The lab exercises are designed to provide students with hands-on experience. The lab assignments will be in the NetLab and the student is required to take multiple screenshots while working on the lab and submit them in a single file with student name and CWID on the top.
- *Note that on a weekly basis the lab content might not match exactly to the textbook chapter taught in class because the textbook and labs are from different publishers.*

IMPORTANT HOMEWORK POLICY

NO late Homework policy! Please note that late homeworks won't be allowed to make up under any circumstances! It's your responsibility to arrange for time completing them by due date!

MID-TERM & FINAL EXAMS

There will be multiple-choice online mid-term and final exams conducted during the class time. The tests are online using Canvas portal for all students. The time of the exams are to be announced.

TESTING/GRADING POLICIES/FINAL GRADES

To pass this course, you must complete ALL labs, homework plus Final Exam.

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%
F	others

Final Grade Mix:

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

Homework	20 %
Lab exercises	50 %
Mid-term and final Exam	30 %
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Total	100%

Students with Disabilities

To obtain disability-related accommodations, students must contact the Disability Resource Center (DRC) as early as possible in the quarter. To contact DRC, you may:

- Visit DRC in Room 5400
- Email DRC at adaptivelearningdrc@foothill.edu
- Call DRC at 650-949-7017 to make an appointment.

Academic Integrity

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.