

Fresno City College
ITIS 160 / CIT-58C-24137-2024SP
Security+ Fundamentals
An Online Course
Spring 2024 9w1: Jan. 8 to Mar. 8

Instructor: Buddy Spisak

Online Office Hours: Mon. – Thurs. 1:30 to 2:30 p.m.

Phone: (916) 691-7062

Email: buddy.spisak@fresnocitycollege.edu The turnaround time for responding to most emails is about two to three business days. Be sure to include your name and the course number in each email so I can identify who you are and what the email is about.

Course Web page: <https://scccd.instructure.com>

Instructor Web page: <http://crc.losrios.edu/spisakj/>

Advisories: CIT 40 and CIT 45 and CIT 50

Prerequisites: CIT 15

Corequisite: None

Anti Requisite: None

Lecture/Lab: Fully online (24137) Asynchronous – optional meeting times recorded on Tuesdays from 7 to 9 p.m.

Accepted for Credit: CSU

Class Credits: 3 units

Textbook: No textbook is required for this course. All the reading materials are available via Canvas.

Labs: Some lab activities maybe done done through NDG Netlabs at <https://netlabve6.coastline.edu/>.

Supplies: Ear buds or a headset would be beneficial when listening to videos and a camera for Zoom conferencing.

A flash drive is recommended (at least 16GB, but 32GB is preferred) to store your work for the class.

Course Description:

This course is designed to familiarize the student with a comprehensive overview of network security. It covers a full range of security concepts and techniques used in the business environment. Prepares students to become CompTIA Security+ certified. Students will learn about authentication methods, explore various network devices and media, and be introduced to basic cryptography and organizational security measures. (A, CSU) C-ID: ITIS 160

Student Learning Outcomes and Course Objectives: *(This section subject to change.)*

Given a business scenario, evaluate and identify information security risks then develop and implement an appropriate solution demonstrating an understanding of system security, network infrastructure, access control and organizational security.

Upon completion of this course, the student will be able to:

1. Find information on the latest threats to network and information security.
2. Explain the different kinds of authentication protocols and the security benefits and drawbacks of each type.
3. Explain some of the vulnerabilities of e-mail and how to safeguard private business communications.
4. Discuss the roll of various network devices like servers, switches, routers, and firewalls in relation to network and business information security. As determined by his/her performance on assignments, examinations, and participation.

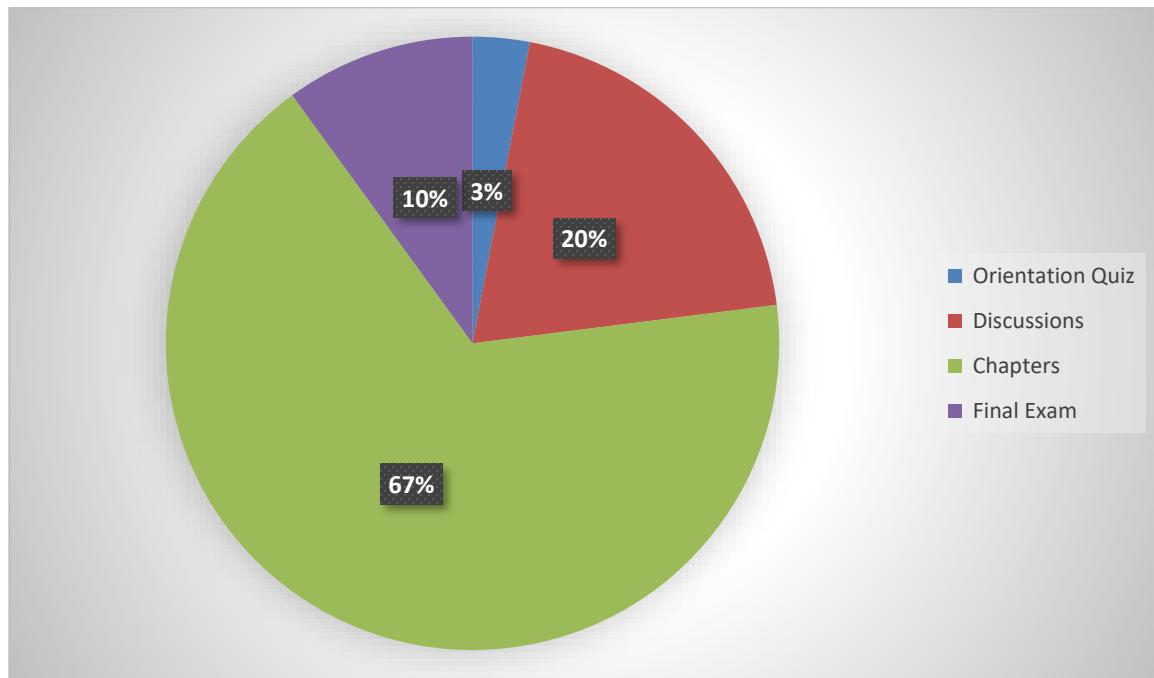
Methods of Measuring Student Learning Outcomes:

- You will demonstrate knowledge of course concepts through class discussions and achievement on chapter activities, quizzes, and a final examination.
- You will demonstrate competence in the coursework by completing lab work and participating in discussions during the semester.

Student Obligations:

- **Deadline Dates:**
Last Day to Add: 01/19/2024.
First Day to Drop: 01/08/2024.
Last Day to Drop (no W assigned): 01/19/2024.
Last Day to Drop (W assigned): 02/07/2024.
- **Attendance:** Since this course is online, it is important to participate frequently in the class.
- **Late Work:** Unless noted, all assignments are due on Sunday by midnight each week. Late work will be accepted ONLY if you have contacted me prior to the due date either by email or voice mail. In general, late work is due the next week, and no late assignments may be turned in after one week from the original due date regardless of the reason. For every day an assignment is late, you will lose 10% of its grade.
- **Due Dates:** Unless noted, all assignments will be submitted in Canvas. If, for any reason, you cannot access Canvas or are unable to submit the assignment on time, please email it to me instead so that you are not penalized for being late. Quizzes and the discussion items cannot be taken past their due dates. If you miss a quiz and you want to make up points, you can take advantage of the extra credit assignments posted in Canvas. Everyone is welcome to work on the extra credit assignments. Typically, they are five to ten points each, depending on the difficulty of the assignment.
- **Discussions:** I want everyone to take a pro-active approach to learning this material. This includes using the discussion feature in Canvas to ask questions and answer other students' questions. I will also post questions each week that you can answer to further your understanding of the material. I expect two postings each week unless otherwise noted.
- **Language Matters:** Part of communicating effectively with one another involves communicating correctly with one another. This is not an English class; however, I will be looking at and commenting on the basic accuracy of your written English, such as sentence boundaries, spelling, and other basic grammar issues. While you will not fail the class because of your English, you may lose some points for frequent and repeated errors. Keep in mind that your use of English can influence your readers positively—or negatively.

- **Final Exams:** These exams will be administered through Canvas.
- **Plagiarism Policy:** It is inappropriate, and a violation of academic policy, to copy information from any source (including, but not limited to, textbooks, magazine articles, newspaper articles and internet articles) without giving proper credit to the author by using standard quotation procedures such as in-line quotes, footnotes, endnotes, etc. Quotes may not exceed 25% of the assignment's total length. You will receive no credit (0 points) for any assignment that copies any material from any other source without giving proper credit to the author(s). Repeat offenders of this policy are subject to academic discipline as outlined in the policies published by the college.
- **Cheating:** Students who cheat will receive a failing grade for the course. (See the College catalogue for 2023-2024 posted on the college website (<https://fresno.curriqnet.com/catalog/iq/2023-2024%20FCC%20Catalog%20-%20Administrative%20Policies.>))
- **Email:** Every student will be required to have an email account. If you do not have an email account, the college provides free email accounts for all current students.
- **Email etiquette:** I will not tolerate rude and demeaning comments or emails to anyone in this class. Please keep your comments and emails topic-related. If I determine that a comment or email to anyone else in the class is rude or demeaning, I will warn you once. If your behavior continues to be unacceptable, I will refer you to the administration of the college for disciplinary action.
- **Personal belongings:** All cell phones, beepers, pagers, etc. should be turned off or set to vibrate during any of the online lectures/labs.
- **Disabilities:** If you have a documented disability and wish to discuss academic accommodations, please contact me or contact the Office of Disabled Student Programs and Services (DSP&S) at 559-442-8237 as soon as possible. The DSP&S office is in Building A on campus.
- **Canvas:** This class utilizes a product called "Canvas." It is highly recommended that you check the website frequently for schedule updates and homework assignments. Most of the homework assignments and quizzes will be done on Canvas.
- **Online Course Responsibilities:** This course requires significant self-motivation. You must not get behind. Labs and weekly assignments can take up to 11 hours to finish. Please don't try to finish them in one day. Not all activities are created equal. Some may take a bit longer than others. You would normally spend 5.5 hours per week in class for this course for a total of 162 hours. Allow yourself at least 9 hours per week to complete the activities online, including the time spent writing the class discussion postings. You should plan additional time to read the textbook and study for the quizzes. Some people believe that an online format provides a much easier way to study this subject than an on-campus framework because they love to read and avoid parking problems. Others feel very intimidated at first. Be patient as you work your way through the activities.
- **Online Access via Zoom:** This class utilizes a product called "Zoom." It is highly recommended that you are in a quiet room without distractions, have stable internet access, and use a video camera with a quality microphone so that you are seen and heard by everyone.

Grading:

Course Topic	Points	Total	Approximate % the of Grade
Orientation Quiz (1)	25	25	3
Discussions (13)	15	195	20
Chapters (13)	50	650	67
Final Exam (1)	100	100	10

Point System: There are 970 total assigned points.

Grade Ranges: A=873-970, B=776-863, C=679-775, D=582-678, F=0-581

Schedule: It is tentative and can change during the term. All changes will be located under the "Announcements" section in Canvas for the course.

	Day:		Lecture/Lab Schedule:	Assignment Due:	Due Date (By Midnight):
Week 1	Tues.	1/9	Orientation and Introductions		Sun., Jan. 14
			Chapter 1: Security Concepts	Orientation Disc.	
			Chapter 2: Threats, Vulnerabilities, and Mitigations	Orientation Quiz	
Week 2	Tues.	1/16	Chapter 3: Cryptographic Solutions	Discussions 1 & 2	Sun., Jan. 21
			Chapter 4: Identity and Access Management	Chapters 1 & 2	
Week 3	Tues.	1/23	Chapter 5: Network Architecture	Discussions 3 & 4	Sun., Jan. 28
			Chapter 6: Resiliency and Site Security	Chapters 3 & 4	
Week 4	Tues.	1/30	Chapter 7: Vulnerability Management	Discussions 5 & 6	Sun., Feb. 4
			Chapter 8: Network and Endpoint Security	Chapters 5 & 6	
Week 5	Tues.	2/6	Chapter 9: Incident Response	Discussions 7 & 8	Sun., Feb. 11
			Chapter 10: Protocol, App, and Cloud Security	Chapters 7 & 8	
Week 6	Tues.	2/13	Chapter 11: Security Governance Concepts	Discussions 9 & 10	Sun., Feb. 18
			Chapter 12: Risk Management Processes	Chapters 9 & 10	
Week 7	Tues.	2/20	Chapter 13: Data Protection and Compliance	Discussions 11 & 12	Sun., Feb. 25
			Final Review	Chapters 11 & 12	
Week 8	Tues.	2/27	Final Exam		Sun., Mar 3
Week 9	Tues.	3/5	What is next after this class? meeting	Final Exam	All work needs to be turned in March 8.