

Course Syllabus

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 Edit

VALENCIA COLLEGE

Division of Engineering, Computer Programming & Technology

Department of Network Engineering Technology

West Campus Building 9, Room 140 (407) 582-1902/1903

<http://valenciacollege.edu/west/engineering>

Session: Spring 2024

Course Date: January 8, 2024 - April 29, 2024

Course Syllabus: CET 4663 – Computer and Network Security – CRN 23122 (3 credits)

Course Description: This course introduces fundamental concepts and techniques of computer security. Topics include secure communications, secure operating systems, and network protection technologies such as firewall, intrusion detection systems, and access control policies. Minimum grade of C required if used to satisfy Electrical and Computer Engineering Technology, B.S. Degree requirement

Prerequisite: Minimum grade of C in CET 4382

Class Time and Location: Thursday 5:30 PM – 7:30 PM Building 11, RM 243

Textbook: *Computer Security Principles and Practice*, 3rd edition, by William Stallings & Lawrie Brown. Pearson – ISBN: 978-0-13-377392-7

[Computer_Security_Principles_and_Practice_\(3rd_Edition_-_2015\).pdf](#)

<https://online.valenciacollege.edu/courses/192826/files/46830225/download?wrap=1> ↓

https://online.valenciacollege.edu/courses/192826/files/46830225/download?download_frd=1

Professor's Information:

Name: Dr. Jessica Chisholm

Office: West Campus, Bldg. 11 – Room 252

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Office hours:

Engagement Hours		
Day	Location	Time
Monday	TEAMs	2:00 pm to 4:00 pm
Tuesday	TEAMs	Noon to 3:00 pm
Wednesday	TEAMs	3:00 pm to 5:00pm
Thursday	RM252	1:00 pm to 5:00 pm
Friday	TEAMs	9 am to 11 am
Teaching Schedule		
Day	Class	Time
Monday	CET2894C	11:30 am to 12:30 pm
Monday	CTS1120C	1:00 pm to 2:00 pm
Monday	CET2792C	4:00 pm to 5:30 pm
Thursday	CET4663	5:30 pm to 7:30 pm

Link to Course Guide:

Student Performance Assessment:

- A** 90-100%
- B** 80 - 89%
- C** 70 – 79%
- D** 60 – 69%
- F** < 60%

Homework Assignments.....30%

Quizzes20 %

Midterm**25%**

Final**25 %**

¹ No make-up exams and quizzes will be given

Note:

- It is the student’s responsibility to be in class and take notes. Exams will cover all material covered **in class** and homework.
- Homework should be turned in prior to the next meeting date via Canvas
- Quizzes will be given at the beginning of the class. If you miss a quiz, there will not be any make-up for that.

Important Dates:

- [2023/2024 Academic Calendar \(https://valenciacollege.edu/academics/calendar/\)](https://valenciacollege.edu/academics/calendar/)
- <https://valenciacollege.edu/academics/calendar/documents/important-dates-calendar-2019-2020.pdf>
- <https://valenciacollege.edu/academics/calendar/documents/important-dates-calendar-2019-2020.pdf>
- <https://valenciacollege.edu/academics/calendar/documents/important-dates-calendar-2019-2020.pdf>

01/08/2024	Semester Begins
01/15/2024	Martin Luther King Day (Campus Closed)
03/18/2024 - 03/24/2024	Spring Break (Campus is Closed)
04/22/2024- 04/29/2024	Finals Week
04/30/2024	Grades Posted to Atlas

Course Learning Outcomes: Students will learn to demonstrate an understanding of:

- Security Fundamentals
- Cryptography Tools
- User Authentication
- Software security and trusted systems
- Linux and Windows Security

DISCLAIMER: Any Changes in the policy and/or schedule of this syllabus may be made at anytime during the semester at the discretion of the instructor.

Rules and Comments:

- Absolutely No food or drinks in the classroom or laboratory
- No make-up exams are permitted unless a ***prior arrangement*** with the instructor has been made and ***approved***.
- There are no “dropped” exam scores.
- Each student is responsible for his or her own work. All exams and graded assignments are to be exclusively your own work unless you receive instructions to collaborate. Using any human, written, electronic, or other resources in any manner not explicitly authorized by the instructor will result in a grade of zero on the exam(s) or assignment(s) involved.
- You are expected to be in class ***on time*** and to remain in class for the entire period unless permission to leave early has been granted by the instructor. It is disruptive to arrive or depart while class is in session.
- Absences are excused solely at the discretion of the instructor, who may require that you prove the existence of extenuating circumstances before excusing any absence(s).
- More than ***two unexcused*** lecture absences could result in a grade of “***F***” for the course.
- It is ***your responsibility to withdraw from the course***. Any withdrawal request after the withdrawal deadline may not be granted.
- It is the student’s responsibility to keep track of their status and performance (i.e., quizzes and exam grades) in class. Students should be able to average their grades based on the grading policy stated in this syllabus.
- ***You are encouraged to ask relevant questions during class.***
- Your attitude will greatly affect your ability to succeed in this course. It will also affect your classmates’ attitudes should you choose to participate in class discussions. Always consider this fact carefully before you speak or act. If your comments or actions in class are deemed by the instructor to adversely affect other students’ attitudes, they are considered disruptive.
- ***Grades will not be disclosed over the telephone or via e-mail except through your Atlas account.***
- ***Cheating or any act of academic dishonesty is prohibited.*** Any student caught cheating, the instructor has the right to withdraw the student from the class or result in a failing grade.
- If you want to record any lecture using audio or video devices, you must take permission from the instructor and fellow students.
- ***Beepers*** and ***Cellular phones*** must be turned ***OFF*** or put on ***silent mode*** during class.
- ***Disruptive Behavior:*** Any student engaging in disruptive behavior will be advised on the first offense and will be ***dropped*** from the course on the second offense.
- ***You must satisfactorily complete all the course requirements with passing grades in order to receive a passing grade.*** The requirement may include (based on the course contents):

- **In-class requirements** (Exams, Quizzes, Homework)
- **Lab Assignments** (Successful completion of lab and submission of lab report)
- **Project Assignment** (Self study assignment)

Valencia College Core Competencies

“The faculty of Valencia College has identified four core competencies that define the learning outcomes for a successful Valencia graduate. These competencies are at the heart of the Valencia experience and provide the context for learning and assessment at Valencia College. You will be given opportunities to develop and practice these competencies in this class. The four competencies are:

1. **Think-** *think clearly, and creatively, analyze, synthesize, integrate and evaluate in the many domains of human inquiry*
2. **Value-** *make reasoned judgments and responsible commitments*
3. **Communicate-** *communicate with different audiences using varied means*
4. **Act-** *act purposefully, effectively and responsibly.”*

Expected Student Conduct

Valencia Community College is dedicated not only to the advancement of knowledge and learning but also to the development of responsible personal and social conduct. By enrolling at Valencia Community College, a student assumes the responsibility for becoming familiar with and abiding by the general rules of conduct. The primary responsibility for managing the classroom environment rests with the faculty. Students who engage in any prohibited or unlawful acts that result in the disruption of a class may be directed by the faculty member to leave the class. Violating any classroom or Valencia’s rules may lead to disciplinary action up to and including expulsion from Valencia. Disciplinary action could include being withdrawn from class, disciplinary warning, probation, suspension, expulsion, or other appropriate and authorized actions. You will find the Student Code of Conduct in the current Valencia Student Handbook.

Students with disabilities who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities (West Campus SSB 102, ext. 1523).

Online Student Assessment of Instruction

As part of our continuing goal to provide the best possible instruction for Valencia Community College students, the student evaluation of instructor form is now available online.

All students are invited to complete this online form on a completely anonymous basis. To do so, go into Atlas, click on My Courses, and then click on the box at the right that says ‘Assessment Survey’. You will be able to submit one assessment form per class. After that, the form will no longer be available to you.

Please set aside some time toward the end of the semester to complete the assessment. Doing so, you will assist the instructor is assessing the effectiveness of his/her teaching methods and techniques.

Thank you for your feedback.

Withdrawal Deadline and Policy

*A student who withdraws from class before the **withdrawal deadline of Feb 11th** will receive a grade of "W." A faculty member is permitted to withdraw a student from the faculty member's class up to the beginning of the final exam period for violation of the faculty member's attendance policy, as published in the faculty member's syllabus. A student cannot withdraw from this class after the withdrawal deadline; if you remain in the class after the withdrawal deadline, you can only receive a grade of A, B, C, D, F, or I. An I grade will only be assigned under extraordinary circumstances that occur near the end of the semester. If you receive an I, the work missed must be made up during the following semester, at which time you will get an A, B, C,D, or F. Failure to make up the work during the following semester will result in you getting a grade of F in the course. Any student who withdraws from this class during a third or subsequent attempt in this course will be assigned a grade of "F."*

Students on financial aid should consult an advisor or counselor before withdrawing from a course; there may be financial implications to the student, which he or she must know about to make an informed decision before withdrawing from a course. Students with some scholarships who withdraw or are withdrawn from a class must pay the college for the cost of the class. Other scholarship sponsors may also require repayment.

To maintain financial aid academically, students must meet all of the following requirements:

- Complete 67% of all classes attempted, and
- Maintain a Valencia GPA of 2.0 or higher, and
- Maintain an overall GPA of 2.0 or higher, and
- Complete degree within the 150% timeframe

Detailed information about maintaining satisfactory academic progress (SAP) can be found at:

[SAP \(https://valenciacollege.edu/finaid/satisfactory-progress.php\)](https://valenciacollege.edu/finaid/satisfactory-progress.php)

For a complete policy and procedure overview on Valencia Policy 4-07, please go to:

[Valencia's Policy 4-07 \(https://valenciacollege.edu/about/general-counsel/policy/\)](https://valenciacollege.edu/about/general-counsel/policy/)

Security Statement









We want to reassure you that our security officers are here around the clock to ensure the safety and security of the campus community. It's important to remain alert and aware of your surroundings, especially during the early morning or evening hours. Remember that you can always call security for an escort if you feel uncomfortable walking alone on campus. White security phones can also be found in many of our buildings; simply pick up the phone and security will answer.














Finally, report any suspicious persons to West Campus Security at 407-582-1000, 407-582-1030 (after-hours number) or by using the yellow emergency call boxes located on light poles in the parking lots and along walkways.








Baycare Behavioral Health's Student Assistance Program

Valencia is committed to ensuring all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help that may assist them with psychological issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management, as well as relationship problems dealing with school, home, or work. Students have 24-hour unlimited access to **Baycare Behavioral Health's confidential student assistance program** phone counseling services by calling (800) 878-5470. Three free confidential face-to-face counseling sessions are also available to students.

Course Summary:

Date	Details	Due
	 Chapter 1 Problems (https://online.valenciacollege.edu/courses/192826/assignments/5328206)	due by 11:59pm
Wed Jan 17, 2024	 Chapter 1 Quiz (https://online.valenciacollege.edu/courses/192826/assignments/5328203)	due by 11:59pm
	 Learn to Virtualize (https://online.valenciacollege.edu/courses/192826/assignments/5328229)	due by 11:59pm
Thu Jan 18, 2024	 Ciphers (https://online.valenciacollege.edu/courses/192826/assignments/5328218)	due by 9pm
	 Chapter 2 Problems (https://online.valenciacollege.edu/courses/192826/assignments/5328212)	due by 11:59pm
Wed Jan 24, 2024	 Chapter 2 Quiz (https://online.valenciacollege.edu/courses/192826/assignments/5328204)	due by 11:59pm
	 Linux Commands, the most essential... (https://online.valenciacollege.edu/courses/192826/assignments/5328222)	due by 9pm
Thu Jan 25, 2024		
Wed Jan 31, 2024	 Chapter 3 Problems	due by 11:59pm

Date	Details	Due
	https://online.valenciacollege.edu/courses/192826/assignments/5328213	
	 Linux Command Review https://online.valenciacollege.edu/courses/192826/assignments/5328221	due by 11:59pm
	 Chapter 4 Problems https://online.valenciacollege.edu/courses/192826/assignments/5328214	due by 11:59pm
Wed Feb 7, 2024	 Cryptography https://online.valenciacollege.edu/courses/192826/assignments/5328219	due by 11:59pm
	 Password Cracking https://online.valenciacollege.edu/courses/192826/assignments/5328225	due by 11:59pm
	 Chapter 6 Problems https://online.valenciacollege.edu/courses/192826/assignments/5328215	due by 11:59pm
Wed Feb 14, 2024	 Password Cracking 2 https://online.valenciacollege.edu/courses/192826/assignments/5328226	due by 11:59pm
	 Stenography https://online.valenciacollege.edu/courses/192826/assignments/5328228	due by 9pm
	 Chapter 7 Problems https://online.valenciacollege.edu/courses/192826/assignments/5328216	due by 11:59pm
Wed Feb 21, 2024	 Stego HW https://online.valenciacollege.edu/courses/192826/assignments/5328227	due by 11:59pm
	 Analyzing PCAP files https://online.valenciacollege.edu/courses/192826/assignments/5328205	due by 11:59pm
Wed Feb 28, 2024	 Chapter 8 Problems https://online.valenciacollege.edu/courses/192826/assignments/5328217	due by 11:59pm
	 Chapter 10 Review Questions https://online.valenciacollege.edu/courses/192826/assignments/5328207	due by 11:59pm
Wed Mar 6, 2024	 Open Source https://online.valenciacollege.edu/courses/192826/assignments/5328224	due by 11:59pm

Date	Details	Due
Sun Mar 17, 2024	 Midterm Part (https://online.valenciacollege.edu/courses/192826/assignments/5328223)	due by 11:59pm
Wed Apr 10, 2024	 Chapter 11 Problems (https://online.valenciacollege.edu/courses/192826/assignments/5328208)	due by 11:59pm
Wed Apr 10, 2024	 Chapter 12 Problems (https://online.valenciacollege.edu/courses/192826/assignments/5328209)	due by 11:59pm
Wed Apr 17, 2024	 Chapter 14 Problems (https://online.valenciacollege.edu/courses/192826/assignments/5328210)	due by 11:59pm
Wed Apr 17, 2024	 wireless (https://online.valenciacollege.edu/courses/192826/assignments/5328230)	due by 11:59pm
Wed Apr 24, 2024	 Chapter 17 Problems (https://online.valenciacollege.edu/courses/192826/assignments/5328211)	due by 11:59pm
Wed Apr 24, 2024	 Final Project -OSINT (https://online.valenciacollege.edu/courses/192826/assignments/5328220)	due by 11:59pm