Syllabus- CSC 32: Ethical Hacking

Master the Mindset of a Digital Adversary!

Prof Meet Your Guide: Professor Information

Professor: Tony Pacheco
Office: SCMA 137
Office Hours: Tuesdays 12pm-2pm and Wednesdays 10am-1pm or by appointment. Contact via Canvas message or email.
Email: ProfessorTony77@gmail.com
Preferred Contact Method: Email is usually best for quick questions!
Fun Fact: Hate future tech wizards! I'm excited to help you start your C.S. adventure. When I'm not teaching, you can find me on the track, running/training, or online finding some good tech videos or movies!

13:32 Course: Information

Course: Ethical Hacking: 3 Units
Term: Spring 2026, Course Section #30396
Hosted via Canvas at: sjcc.instructure.com

Final Exam: Week of 05/11/26 (T.B.A.)
Preferred Contact Method: Canvas email is the best form of immediate contact as phone messages are not checked often.

INFO Course Description: Your Mission, Should You Choose to Accept It...

Welcome to **Ethical Hacking**!! In this course, you will **Master the Mindset of a Digital Adversary** to build ironclad defenses. We'll explore hacking methodologies and penetration testing using industry-recognized tools to find vulnerabilities in networks, web applications, and databases. Through high-intensity hands-on assignments, you will develop the technical skills vital for entry-level cybersecurity professionals. Learn to hunt for vulnerabilities, navigate legal ethical frameworks, and defend private organizations against real-world cyber threats.

Official- Course Description:

This course is an introduction to the ethical and legal issues pertaining to network and computer security testing. Students will explore an introduction to the hacking methodology and network penetration testing using industry-recognized tools. Hands-on assignments will be used to help students develop introductory technical skills relevant to entry-level cybersecurity professionals, including demonstration of tools that can be used to gain information about a computer network, web applications, and databases. This course is intended for students with computer experience and an interest in cyber defense for private organizations.(HBCU, CSU)

AIM Course Objectives

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

1. Describe the tools and methodology a "hacker" uses to break into a computer or network.
2. Defend a computer and a Local Area Network (LAN) against a variety of different types of security attacks using several hands-on techniques.
3. Describe the legal and ethical aspects of hacking networked systems.

SKILL Learning Outcomes

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

1. Analyze and test for vulnerabilities using industry-recognized tools and describe the findings.
2. Apply the hacking methodology using industry-recognized tools to gain authorized access to a computer or networked system.
3. Explain ethical issues, laws, policies, and regulations related to appropriate computer use and network testing for security professionals

CAL Key Dates - Mark Your Calendars!

SPRING SESSION 2026 DATES. (Download PDF for all Spring sessions/dates)- CLICK HERE!

- **Start Date (Jan. 09)**: First Day of Spring Semester. - Let the Adventure Begin!
- **Drop w/Refund (Jan. 23):** Last day to Drop with Full Refund!
- **Drop w/No'W' (Jan. 25):** Last day to Drop with NO 'W' AND Last Day to Add.
- **Drop w/'W' (Mar. 16):** Last day to Drop with a 'W'.
- **Finals Week (May. 10):** Final Exams Week thru May.15 – The Grand Finale!
- *(Always check Canvas Course dashboard and Online Calendar for other important dates and holidays)*

GEAR REQUIRED Text & Items - Your Toolkit! **!IMPORTANT**

- Textbook (Online, eTextbook+ Cengage MindTap, ONLINE LEARNING PLATFORM, "Hands-On Ethical Hacking and Network Defense" **ISBN-13: 9798214028262**) Bob S. Wilson, Michael T. Simpson, Ethical Hacking, 2026, 4th edition (6-month access $103). **Purchase by Jan. 14 or you will be Dropped from the course.**

Note: We'll be using this extensively. You can find Access Code Bundle at the campus bookstore or online (CengageGo- CLICK HERE! scroll down a little, ($103). Obtain this ASAP. **Assignments due first week, use the online content!**

- **Software / Other Online Access:** LinkedIn Learning. Office 365. GMAIL account needed! Other software/accounts as noted in Canvas Welcome page.

Good news! This software is free and we'll walk through how to install it.

- **Hardware: *Important*** You will need:
  - A reliable computer (Windows preferred, Mac, or Linux ok) with internet access.
  - A USB flash drive for Virtual Machines and backing up your work **(HIGHLY recommended)**. 512MB
- **Other:** Access to the college's Learning Management System (LMS) – Canvas! All announcements, assignments, links, and grades will be posted there!

RULES Course Policies & Procedures - The Game Rules!

Attendance & Participation: Your Journey, Your Presence!

Course attendance every week, whether the course is Online or In-Person, is IMPORTANT! ***Your presence is crucial!*** Lectures, discussions, activities, labs, and assignments are designed to help you succeed. Think of it like leveling up in a game – you can't get experience points if you're not playing! Active participation will also count towards your grade. Course assignments, discussions, labs, activities, and tests are how your grade is determined. **It is your responsibility** to get all the work done! **Missing 2 or more graded activities may result in being dropped from the Course!** If you have any questions, PLEASE ASK. I am here to facilitate your success. Check Canvas often, participate, read announcements, and do the work. **You can do It! **During the first week of the course there will be 3 graded assignments due! ** CRUCIAL to avoid being DROPPED!**

Late Work: Beat the Clock!

Assignments have due dates for a reason – they help you stay on track and build knowledge sequentially. Assignments submitted late will have a penalty. Again, you are responsible for doing the work and doing it on time! Late penalty will be up to 10% of assignment score. (Depending on number of days late). *Pro Tip: Aim to finish early! You'll thank yourself later.*

Make-Up Exams & Emergency Policy: Life Happens!

Make-up exams will only be granted for **verifiable, documented emergencies** (e.g., serious illness with a doctor's note, family emergency). You must contact me **as soon as possible**, preferably before the exam, to discuss arrangements. The same applies to extensions for major assignments under emergency circumstances.

Academic Integrity: Code with Honor!

This is a big one! All work submitted in this course must be **your own original work** unless explicitly stated otherwise. **What's Okay:** Discussing concepts, getting help understanding errors. **What's NOT Okay:** Copying written work or code, sharing completed assignments, having someone else do your work. Any instance of academic dishonesty will result in a **zero for the assignment/exam**, and may be reported to the college. Let's keep It honest! Tools such as Turnitin may be used to check for similarities.

Classroom/Online Conduct: Tutors, and Individual Assistance: Respect is Key!

Our classroom, Online or In Person, is a learning community. Be respectful. Conduct should fit a classroom/learning environment. Be considerate of others. Do not argue, though questioning and presenting of ideas with supportive reasoning is encouraged. In the classroom, silence cell phones. Laptops for note/assignments only. Ask questions! If you have questions about tutoring, check Delta Online Tutoring/NetTutor at this online link CLICK HERE! You may also consider working with a study group or post a question in the Cravas course discussion board. Post general questions, comments, requests to form study groups, links to interesting articles or websites, or any course related information. Posts that are deemed inappropriate by the professor will be deleted and may result in student discipline. Other students are often quite helpful and will generally provide a lot of support. And, of course, you can always ask the Professor- in an online Canvas message!

Communication: Stay Connected!

Always Check Canvas for announcements. *Your professor may not have time to respond to all individual communications. If there are areas of general misunderstanding or errors, the problem may be addressed as an Announcement Item or other mass communication method. Please understand that there are over 200 students enrolled in courses taught by your professor, which places a very heavy demand on your professor and as a result there may be little flexibility in handling of individual requests. Canvas email for private communications will be checked on a regular basis and is the best form of direct, private communication with your professor. *Office hours are best for detailed help!

INF Assistance and Other Important Online Student Information!

Delta maintains a College Website with Links to important student information including the current Student Handbook. CLICK HERE!

- **Need Assistance?** Students requiring accommodations for a certified disability that may affect class performance are requested to contact DSPS, meet with a staff member at Disability Support Programs and Services so that appropriate arrangements can be made. DSPS is located in the DeRicco Building, 2nd floor. The phone number is (209) 954-5151 x6272. After obtaining any DSPS, course accommodation(s), you need to make your Professor aware of such accomodation(s). Then contact me during the first week of the semester, as soon as you have the DSPS accomodation.
- **Student Services:** Extensive online page with Student services, programs, financial aid information, and other resources for all students! CLICK HERE!
- **CANVAS Access:** To access your classes, course, online resources, L.M.S., and Fully Online courses you need to log into the college online learning tool CANVAS, through your MyDelta Dashboard. For, How to Login to CANVAS?, CLICK HERE!
- Drops? "DROPS" ARE THE RESPONSIBILITY OF THE STUDENT. Except for the first 2 weeks of the term. Students may be dropped for non-attendance. The professor reserves the right to make any adjustments in the operation of this course that in professional judgment are warranted to better meet the needs of the students and the objectives of the course.

GRADE Grading Policy - How You'll Level Up!

Students will be evaluated by a final examination and, at the professor's discretion, one or more of the following: midterms, quizzes, homework, computer programs, discussions, and/or class activities.

Grade Breakdown:

- Assignments (Questions, Labs & Problems): 51%
- Quizzes (In-class or Online): 14%
- Midterm Exam: 10%
- Final Exam (Cumulative): 15%
- Participation (In-Class or Online Activities): 10%

Grading Scale:

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

Level Up Your Skills!

MAP Course Schedule - Your Roadmap to Success!

"CANVAS- **Modules** is the place to find all assignments! Be sure to start them and work to complete each Module's assignments by the noted Due Dates. Schedule below contains a high-level overview of dates, topics, and chapters. Modern Operating Systems is the online e-Text. Other online sites will be noted in Canvas. Links noted in Modules or assignment pages.

This schedule can change and is subject to change with notice. Check CANVAS! for the latest updates!

Spring 2026 Course Schedule

WK.	DATE	ETEXT CENGAGE MINDTAP-ONLINE, READ - INBOWK - TEST-QUIZ-ASSIGNMT.	END DATE
1	Jan. 09	**URGENT:** Complete ALL Required Tasks- To **avoid being DROPPED** from course. (Canvas Module, Getting Started) + Orientation -	Jan. 16
2	Jan. 18	Read e-Textbook Chapter 1. Ethical Hacking Overview Cengage-Mindtap: COMPLETE activities in **Learn It, Study It, Apply It**	Jan. 24
3	Jan. 25	Read e-Text Chapter 2. TCP/IP Concepts Review Cengage-Mindtap: COMPLETE activities in **Learn It, Study It, Apply It**	Jan. 31
4	Feb. 01	Read e-Text Chpt. 3. Network and Computer Attacks Cengage-Mindtap: COMPLETE activities in **Learn It, Study It, Apply It**	Feb. 07
5	Feb. 08	Read e-Text Chpt. 4. Footprinting and Social Engineering COMPLETE All activities in **Learn It, Study It, and Apply It**. Due	Feb. 14
6	Feb. 15	Read e-Text Chpt. 5. Port Scanning Complete All activities in- **Learn It, Study It, and Apply It**. Due	Feb. 21
7	Feb. 22	Read e-Text Chpt. 6. Enumeration - **Learn It, Study It, and Apply It** Complete All activities in- **Learn It, Study It, and Apply It**. Due	Feb. 28
8	Mar. 01	Read Ch.7. Programming for Security Professionals **Learn, Study, Apply** **MIDTERM TEST- Covers Chpts. 1 to 7) Due**	Mar. 07 **Mar. 16**
9	Mar. 15	Read e-Text Chpt. 8. Desktop and Server OS Vulnerabilities COMPLETE activities in **Learn It, Study It, and Apply It**. Due	Mar. 21
10	Mar. 22	Read e-Text Chpt. 9. Embedded Operating Systems: The Hidden Threat. Complete All activities in- **Learn It, Study It, and Apply It**. Due	Mar. 28
11	Mar. 29	Read e-Text Chpt. 10. Hacking Web Servers COMPLETE All activities in **Learn It, Study It, and Apply It**. Due	Apr. 04
12	Apr. 05	Read e-Text Chpt. 11. Hacking Wireless Networks COMPLETE All activities in **Learn It, Study It, and Apply It**. Due	Apr. 11
13	Apr. 12	Read e-Text Chpt. 12. Cryptography COMPLETE All activities in **Learn It, Study It, and Apply It**. Due	Apr. 18
14	Apr. 19	Read e-Text Chpt. 13. Network Protection Systems COMPLETE All activities in **Learn It, Study It, and Apply It**. Due	Apr. 25
15	Apr. 26	Read e-Text Chpt. 14. Hands-On Ethical Hacking Final Project COMPLETE All activities in **Learn It, Study It, and Apply It**. Due	May 02
16	**May 3**	**Appendices: A & B** COMPLETE activities *as may be assigned.* Due	May 09
17	**May 10**	***FINALS WEEK: ONLINE FINAL (FRIDAY MAY 15) T.B.A.)***	
		Final Exam: Online- Cengage Mindtap	Date T.B.A.

GRAD Assignments - Additional information!

- **Projects: Such as Essays, PowerPoint Presentations, Videos, and Systems Planning:** Exercises to work through online or offline are to increase your ability to recognize how Operating Systems are best used and their various component parts. Expect to spend some time reading through each of the Chapters and then working through any **exercises, labs, Discussions, quizzes and/or other online work..**
- **Additional Assignments:** Such as Discussions, Video Quizzes, and Labs are to be expected during the course semester. Always check Canvas for Announcements and any Added Assignments.. Canvas LINK!
- **Quizzes:** Will cover Chapter material for each Module and chapter readings. Keep those neurons firing!
- **Midterm & Final Exams:** Will assess your understanding of concepts and ability to apply them. They will include multiple-choice, short answer, and some T/F questions.
- **(Optional) Final Project:** And Extra Credit work will be announced prior to the Midterm. More details will be provided separately.

DATA is VALUED!

A Final Byte of Wisdom...

Learning technology - science is like learning a new language and a new way of thinking. It takes practice, persistence, and patience. Don't be afraid to make mistakes – they are part of the learning process! Ask for help when you need it, collaborate (appropriately), and most importantly, have fun exploring what you can create! I'm here to help you succeed. Let's have an amazing semester!

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