

Instructor Information

Section Information: CSE 4380, Sections 1, 2, 3 and CSE 5380, Sections 1, 2
Class Meeting Times: M/W 4:00-5:20 PM Location: LS 100
Lab Meeting Times: 4380: M 5:30-8:30, W 7:00-10:00, Lab Room: ERB 106
 5380: TBD

Make-ups: Make-ups for graded activities may be arranged if your absence is caused by illness or personal emergency. A written explanation (including supporting documentation) must be submitted to your instructor; if the explanation is

acceptable, an alternative to the graded activity will be arranged. Make-up arrangements must be arranged prior to the scheduled due date.

Class Attendance Policy: At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section, I will be grading attendance based on your participation and accuracy in the TopHat questions that will be used in each lecture. Also note that I will not simply be lecturing to a passive audience. In every class period, you will learn by actively participating in the process of solving problems and working in small groups. Missing class, therefore, means missing out on learning opportunities that cannot be gained from the textbook.

Lab Attendance and Completion: Attendance to your assigned lab section during lab weeks is mandatory. You are expected to come to lab having completed a pre-lab assignment that will be checked by the GTA before you may begin the lab. The lab hours are fixed. We will allow you to complete an unfinished lab by attending GTA office hours in the following week (max. 1 hour), but at the cost of 10 points (out of 100) deducted from your grade for that lab.

Descriptions of major assignments and examinations with due dates:

- *Online Assignment* (Sep. 4): A quick course introduction activity.
- *TopHat Questions:* In each lecture session and exam review, you will answer questions using the TopHat system. You must bring your smartphone or laptop to each session for this purpose. Grades will be based on a combination of participation and accuracy of answers.
- *Lab Assignments:* In the labs, you will work in pairs to learn how attacks operate and how to defend against them. Each lab exercise includes a pre-lab assignment due the Sunday before the lab week.
 1. Cryptography: Sep. 21-24
 2. System Security: Oct. 5-8
 3. Malware: Oct. 12-15
 4. Buffer Overflows (2 weeks): Nov. 2-5 and Nov. 9-12
 5. UNIX and Network Security: Nov. 16-18
- *CTF Lab*, Part 1: Nov. 30 - Dec. 3, Part 2 on Dec. 7-10. Presentations: Dec. 16, 2:00-4:30
In this lab exercise, you will work in teams in a capture-the-flag game of defense and attack against other lab sections. You will give a team presentation showing how you applied class knowledge to the game.
- *Quiz* (Dec. 7): The quiz covers administrative issues in securing networks.
- *Security News Presentation* (dates will be arranged for each student):
Students will give a brief presentation in class on an issue appearing in the news related to class.
- *Exam 1*, in-class, Mon., Oct. 19
Covers Cryptography, System Security, and Malware
- *Exam 2*, in-class, Mon., Nov. 30
Comprehensive; focus on Software Security and Network Security

Course Schedule (Subject to Change)

<i>Week</i>	<i>Class Dates</i>	<i>Topic</i>	<i>Activity</i>	<i>Due Dates</i>
1.	Aug. 31/Sep. 2	Class Intro + Security Principles	Online Assignment	Sep. 4
2.	Sep. 7/9	LABOR DAY + Crypto Overview	None	
3.	Sep. 14/16	Certificates + Protocols	Pre-Lab 1	Sep. 20
4.	Sep. 21/23	User Authentication	Lab 1	
5.	Sep. 28/30	Access Control	Pre-Lab 2	Oct. 4
6.	Oct. 5/7	Malware	Lab 2 + Pre-Lab 3	Oct. 11
7.	Oct. 12/14	HIDS/AV + Exam Review	Lab 3	
8.	Oct. 19/21	EXAM 1 + Buffer Overflows 1	Exam 1	
9.	Oct. 26/28	Buffer Overflows	Pre-Lab 4	Nov. 1
10.	Nov. 2/4	Overflow Defenses + Networks	Lab 4	
11.	Nov. 9/11	NIDS + Firewall/NIDS Configuration	Lab 4 and Pre-Lab 5	Nov. 15
12.	Nov. 16/18	Web Security + CTF Preview	Lab 5 and Pre-CTF	Dec. 6
13.	Nov. 23/25	Mobile/Cloud + Exam Review		
14.	Nov. 30/Dec. 2	EXAM 2 + Guest Lecture	Exam 2 and CTF Part 1	
15.	Dec. 7/9	Advanced Topics	Quiz and CTF Part 2	
16.	Dec. 16	CTF Presentations	CTF Presentations	12/16, 2:00-4:30

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. –Matthew K. Wright

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (<http://www.uta.edu/aao/fao/>).

Disability Accommodations: UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including *The Americans with Disabilities Act (ADA)*, *The Americans with Disabilities Amendments Act (ADAAA)*, and *Section 504 of the Rehabilitation Act*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the **Office for Students with Disabilities (OSD)**. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364.

Counseling and Psychological Services, (CAPS) www.uta.edu/caps/ or calling 817-272-3671.

Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Title IX: *The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos. For information regarding Title IX, visit www.uta.edu/titleIX.*

Academic Integrity: Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

UT Arlington faculty members may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University.

Student Support Services Available: The University of Texas at Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. These resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals to resources for any reason, students may contact the Maverick Resource Hotline at 817-272-6107 or visit <http://www.uta.edu/resources> for more information.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at: <http://www.uta.edu/oit/cs/email/mavmail.php>.

Students will be given accounts for the ASCENT security-teaching lab. All students are expected to be responsible users of the computer systems used for this course. In particular, students are expected to abide by the code of ethics associated with this course.

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as “lecture,” “seminar,” or “laboratory” shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit <http://www.uta.edu/sfs>.

Final Review Week: A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at: <http://www.uta.edu/universitycollege/resources/index.php>

<p>Emergency Phone Numbers: In case of an on-campus emergency, call the UT Arlington Police Department at 817-272-3003 (non-campus phone), 2-3003 (campus phone). You may also dial 911. Non-emergency number 817-272-3381</p>
