

Course Description: COSC 4361/5342_Cybersecurity Management Syllabus— This course will cover the techniques used to secure and manage computers, computer networks and enterprise computer systems. Topics covered will include security policies, computer network management, and disaster recovery. Special emphasis will be given to designing, deploying and managing complete security systems.

Prerequisite: Prerequisite: COSC 4325 or COSC 4360.

Course Learning Outcomes: By the end of this course students are expected to understand the essentials of:

- Detailed Security Risk Analysis
- Contingency Planning
- Security Controls, Plans, Procedures
- Physical & Infrastructure Security
- Human Factors in Security
- Information Security Policy & Programs
- Security Auditing
- Legal & Ethical Aspects

Revisions to the Syllabus—*The instructor may revise the syllabus where necessary to achieve the course learning outcomes.*

Required Textbooks:

Management of Information Security 4e; Authors: Whitman & Mattord; Publisher: Cengage; ISBN: 978-1-285-06229-7.

Computer Security Principles and Practice 3e

Authors: Stallings & Brown; Publisher: Pearson; ISBN: 978-0-13-377392-7

You can buy the books online or at the university bookstore. On the first day of class, we will discuss how and the extent to which we will use of the textbooks.

Instructor Contact Information:

- Name: Dr. David Michael Hull
- Office: Soules College of Business 315.06.
- E-mail: dhull@uttyler.edu
- Office Hours: By appointment and 11:15 to 12:15, M/W/F.

Class Session Schedule: 09:05 am to 10:00 am Monday/Wednesday/Friday in Room COB 211

The Voice of the Market—Please consider the following excerpt from one of my students from the spring of 2019:

“I just wanted to shoot you a quick email to thank you for what you've taught me. I got a job at XXX, a multi-billion-dollar consulting company. They just opened this office eighteen months ago and are establishing their cybersecurity headquarters for the whole USA in this office. It's a huge room, still under construction, with multiple security measures (separate key cards, bio metric

scanning, etc.) They're looking to staff more people in it and it's where I'll be working once I complete training.

“As you can imagine, the training is very rigorous. Classroom sessions, exams where anything under a 100 is failing, the whole nine yards. EVERYTHING you've mentioned about cybersecurity has been covered and emphasized. I've been able to retain information and apply it in practice because of the way you taught it to me. When one of the instructors asked me how I knew certain things or am familiar with certain practices, I answered, "Dr. Hull taught me." Whatever research you have going on in regards to behavioral cybersecurity, please continue.

“There's a lot of anxiety in being part of a team that protects billions of dollars' worth of assets, but you're teaching has definitely helped me. I'm sure there's many more prospective security analysts who would also benefit under your guidance.”

This anecdote confirms the reliability of the following statement: “The world doesn't care what you know; the world cares about what you can do with what you know.” *Tony Wagner, co-author of 'Creating Innovators' (Wagner & Compton, 2015).*

This explains why I do not measure what you know, and why I do not give objective tests (e.g., multiple-choice and true/false quizzes). I measure what you can do with what you know. I do that by having you demonstrate your reasoning skills in the service of proposing solutions to an ill-defined problem (i.e., a problem for which there is not unambiguously correct answer). I use two devices for such measurements: team-based problem-solving activities, and essay exams, as indicted below.

Course Grading—You can earn credit points according to the following schedule:

Activity	% of grading credits
Team-based problem-solving activities/classroom participation*	30%
Mid-term essay exam	30%
Final essay exam	40%
Extra credit	I do not offer extra credit

*I will participate actively in your team's presentations by asking questions of the presenters (sometimes with interruption) and by calling upon audience members to answer questions related to the topic and the presentation. I am persistent and demanding in this activity. My purpose is to simulate the real-world experiences in which your bosses, colleagues, partners and customers will probe and evaluate the quality of your ideas; the soundness of your reasoning; and the persuasiveness of your communications.

Grading Rubric:

Letter Grade	Assigned Score (s)			Definition
A	90 %	≤ s		Mastery
B	80 %	≤ s <	90 %	Good Understanding
C	70 %	≤ s <	80 %	Adequate
D	65 %	≤ s <	70 %	Probably Failed to Demonstrate
F		s <	65 %	Definitely Failed to Demonstrate

Schedule of Topics to be Covered

Module #	Weeks	Topic
1	Weeks 1&2	WM - Chapter 1: Introduction to Information Security Management WM - Chapter 2: Planning for Security
2	Weeks 3&4	SB - Chapter 14: Security Risk Analysis WM - Chapter 3: Planning for Contingencies
3	Weeks 5&6	SB - Chapter 15: Controls, Plans, Procedures SB - Chapter 16: Physical and Infrastructure Security
4	Week 7	Midterm exam
5	Weeks 8&9	WM - Chapter 4: Information Security Policy WM - Chapter 5: Developing the Security Program
6	Weeks 10&11	SB - Chapter 17: Human Resources Security SB - Chapter 18: Security Auditing
7	Weeks 12&13	SB - Chapter 19: Legal and Ethical Aspects WM - Chapter 12: Law and Ethics
8	Week 14	Final Exam

Exams: Tests must be taken when scheduled. No makeup tests or exams will be given. The instructor may make exceptions in extreme cases.

Expectations of students:

- **Take ownership of your learning.** You are responsible for what you get out of this course. I have organized the course to emphasize two goals: The acquisition of relevant knowledge and the development of the skillful use of that knowledge. In Week 1, we will review and discuss the rationale for this method of promoting deep learning.
- **Team-Based Learning.** Notice that a substantial portion of your grade is associated with the team-based learning activities. Such activities are vital to helping you learn how to skillfully apply acquired knowledge.
- **Essay Exams.** Notice that the exams are essay-based. This form of exam promotes and measures the reasoning and communication skills you need to skillfully apply acquired knowledge in the real world.
- **Importance of Attending Class**—As detailed in the Course Overview document, we will follow the "flipped classroom" model whereby we devote much of our classroom time not to lecture but instead to experiential learning exercises that help you develop your ability to apply relevant knowledge, using effective communication skills, teamwork skills and problem-solving skills. Thus, attending class is vitally important to your learning and academic performance.

University Policies

UT Tyler Honor Code – Every member of the UT Tyler community joins together to embrace: Honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

Student Standards of Academic Conduct – Disciplinary proceedings may be initiated against any student who engages in scholastic dishonesty, including, but not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts.

“Cheating” includes, but is not limited to:

- copying from another student’s test paper or homework assignment;
- using, during a test, materials not authorized by the person giving the test;
- failure to comply with instructions given by the person administering the test;
- possession during a test of materials which are not authorized by the person giving the test, such as class notes or specifically designed “crib notes”. The presence of textbooks constitutes a violation if they have been specifically prohibited by the person administering the test;
- using, buying, stealing, transporting, or soliciting in whole or part the contents of an unadministered test, test key, homework solution, or computer program;
- collaborating with or seeking aid from another student during a test or other assignment without authority;
- discussing the contents of an examination with another student who will take the examination;
- divulging the contents of an examination, for the purpose of preserving questions for use by another, when the instructors has designated that the examination is not to be removed from the examination room or not to be returned or to be kept by the student;
- substituting for another person, or permitting another person to substitute for oneself to take a course, a test, or any course-related assignment;
- paying or offering money or other valuable thing to, or coercing another person to obtain an unadministered test, test key, homework solution, or computer program or information about an unadministered test, test key, home solution or computer program;
- falsifying any academic work offered for credit;
- taking, keeping, misplacing, or damaging the property of The University of Texas at Tyler, or of another person, if the student knows or reasonably should know that an unfair academic advantage would be gained by such conduct; and
- misrepresenting facts, including providing false grades or resumes, for the purpose of obtaining an academic or financial benefit or injuring another student academically or financially.

Unless otherwise specified, all work submitted for a grade must be work that you completed alone. You are not to submit another person’s work and claim it as your own. Plagiarism and/or collusion will result in disciplinary actions.

Students Rights and Responsibilities – To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link:

<http://www.uttyler.edu/wellness/rightsresponsibilities.php>

Grade Replacement/Forgiveness and Census Date Policies – Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar. Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract. The Census Date is the deadline for many forms and enrollment actions of which students need to be aware. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a “W” grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy – Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date). Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

Last Day to Withdraw—From the first day of classes through the Last Day to Withdraw, students may process a partial withdrawal (dropping from one or more but not all of their classes) or complete withdrawal (all classes in a term) via the online Course Drop or Withdrawal Request Form,

<http://www.uttyler.edu/registrar/registration/withdrawals.php>

Student Accessibility and Resources – In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychiatric

disabilities. If you have a disability, including non-visible disabilities such as chronic diseases, learning disabilities, head injury, PTSD or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the Student Accessibility and Resources (SAR) office and schedule an interview with the Accessibility Case Manager/ADA Coordinator, Cynthia Lowery Staples. If you are unsure if the above criteria apply to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR office located in the University Center, Room 3150 or call 903.566.7079. You may also send an email to cstaples@uttyler.edu.

The above pages may be revised without notice. These policies can be found on UT Tyler's website: <http://www.uttyler.edu/academicaffairs/files/syllabuspolicy.pdf>