

CIS 4341-110 -10206-IT Security and Risk Management

Spring 2020

Texas A&M University - Central Texas

COURSE DATES, MODALITY, AND LOCATION

Course Dates: 1/13/2020-5/8/2020

Modality: Face to face lecture

Location: Founder's Hall, Room 407

INSTRUCTOR AND CONTACT INFORMATION

Instructor: Emmet Gray

Office: Founder Hall, Room 323Q

Phone: (254) 519-5754, COBA Admin - (254) 519-5437

Email: Canvas Inbox (preferred) or TAMUCT email (e.gray@tamuct.edu)

Office Hours:

~~My normal "walk in/no appointment" office hours are shown below.~~ I'm also available outside of those times by appointment

- Mon/Wed - 4:15-5:15

I have converted by traditional face-to-face office hours to "virtual" office hours via WebEx

Mode of instruction and course access:

This a face to face course that makes extensive use of the TAMUCT Canvas Learning Management System (<https://tamuct.instructure.com>). The course syllabus, schedule, supplemental readings, class announcements, power point slides, learning modules, homework assignments, exams and other course related documents will be posted on Canvas. Each student is responsible for the posted material, and should check Canvas several times a week for updates

Student-instructor interaction:

I typically respond to Canvas email within 24 hours except on weekends. I can meet with students at the university by appointment.

WARRIOR SHIELD

Emergency Warning System for Texas A&M University-Central Texas

Warrior Shield is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in Warrior Shield through their myCT email account.

Connect to Warrior Shield by [911Cellular](https://portal.publicsafetycloud.net/Account/Login) [https://portal.publicsafetycloud.net/Account/Login] to change where you receive your alerts or to opt out. By staying enrolled in Warrior Shield, university officials can quickly pass on safety-related information, regardless of your location.

COURSE INFORMATION

Course Overview and description:

Examine the fundamental principles and topics of Information Technology Security and Risk Management at the organizational level. Learn critical security principles and best practices in order to plan, develop and perform security tasks. Special emphasis on hardware, software, processes, communications, applications, and policies and procedures with respect to organizational IT Security and Risk Management.

Course Objective:

This course introduces the fundamental principles and concepts of information security and common body knowledge of information security. Topics include access control, telecommunication and network security, information security governance and risk management, software development security, physical security, cryptography, security architecture and design, operations security, business continuity and disaster recovery planning and legal and ethical issues in information security.

Student Learning Outcomes:

A student successfully completing this course will be able to:

- Describe the fundamental principles of information technology security.
- Explain the concepts of threat, evaluation of assets, information assets, physical, operational, and information security and how they are related.
- Recognize the need for the careful design of a secure organizational information infrastructure.
- Identify both technical and administrative mitigation approaches
- Demonstrate an understanding of security technologies
- Discuss the need for a comprehensive security model and its implications for the security manager or Chief Security Officer (CSO).
- Explain basic cryptography, its implementation considerations, and key management.
- Determine appropriate strategies to assure confidentiality, integrity, and availability of information.
- Perform risk analysis and risk management.
- Create and maintain a comprehensive security model.
- Design and guide the development of an organization's security policy.
- Apply risk management techniques to manage risk, reduce vulnerabilities, threats, and apply appropriate safeguards/controls.

Competency Goals Statements (certification or standards):

Section not used

Required Reading and Textbook(s):

Required:

Principles of Information Security, 6th Edition

Author: Michael E. Whitman, Herbert J. Mattord

Publisher: Cengage

Edition: 6th

ISBN: 978-1-3371-0206-3

Note: An electronic version of the book may be available.

Note: A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

Supplemental Material:

The course textbook will be supplemented with other materials including lecture notes, handouts, oral presentations, industry articles, research paper readings, case studies, Power Point presentations etc.

Required Reading:

The student is expected to read and review all material presented in the assigned chapter prior to class.

COURSE REQUIREMENTS

Course Requirements

Examinations: There will be two exams, one midterm and one final exam. Each is worth 15 points. The midterm covers chapters 1-6 and the final covers chapters 7-12. Exams will be conducted in class, and will be timed.

Quizzes: There will be 6 take-home small quizzes. Each quiz is worth 5 points. The quizzes will be available via Canvas for a short period of time (typically 1 week), must be completed in one session, and be will timed.

Assignments: There will be 6 take-home assignments. Each assignment will be worth 5 points. Assignments will typically be available on Canvas for 2 weeks. Multiple submissions are typically allowed. If an assignment has multiple files, you will be required to “zip” the files prior to submission via Canvas.

Term Project: There will be 1 term project that is worth 10 points. This assignment will typically be available on Canvas for 4 weeks.

Item	Quantity	Points	Total	Percent
Exams	2	15.00	30.000	30%
Quizzes	6	5.00	30.000	30%
Assignments	6	5.00	30.000	30%
Term Project	1	10.00	10.000	10%
Total			100.000	100%

Grading Criteria Rubric and Conversion

Exams & Quizzes: Exams and quizzes will receive a numeric score (0-100) each. Scores will be converted to points and totaled as shown in the example below:

Quiz	Score	Percent	Max Points	Points
Quiz 1	95	95%	5.00	4.75
Quiz 2	100	100%	5.00	5.00
Quiz 3	80	80%	5.00	4.00
Quiz 4	85	85%	5.00	4.25
Quiz 5	86	86%	5.00	4.30
Quiz 6	88	88%	5.00	4.40

Requirements for Assignments: Assignments must follow the requirements as stated in the Canvas assignment system; demonstrate the concepts; have original content, be organized, and

use proper English.

The following grading rubric is used for assignments:

Criterion	% of Grade	Excellent (100%)	Adequate (80%)	Poor (60%)	Not Met (0%)
Assignment Requirements	25%	Meets all of the requirements of the assignment	Minor details of the requirements are missing	Significant details of the requirements are missing	Significant portions of the requirements are missing
Chapter Specific Objectives	30%	Fully demonstrates the concepts of the chapter	Applies major and minor concepts of the chapter	Applies major concepts of the chapter	Chapter concepts not in evidence
Original Content	25%	>20% is original content	Between 15-20% original content	Between 10-15% original content	<10% original content
Readable / Organized	15%	Assignment is well organized, easy to understand, good content flow	Minor issues with formatting, content flow	Majority of assignment has formatting or content flow issues	No formatting or content flow
Spelling / Grammar	5%	No spelling or grammar issues	Less than 3 spelling or grammar issues	Between 3-5 issues	Greater than 5 issues

Conversion: Numeric scores are converted to letter grades as follows:

Note: I do not round up numeric scores

Grade	Points	Percent
A	90 - 100 points	90 - 100%
B	80 - 89 points	80 - 89%
C	70 - 79 points	70 - 79%
D	60 - 69 points	60 - 69%
F	0 - 59 points	0 - 59%

File Naming Convention: Submit your assignments via Canvas using file names with the following format:

CIS4341 [AssignmentID] [LastName.FirstName].[extension]

Example:

CIS4341 Assignment1 Doe.John.docx

Posting of Grades: All student grades will be posted on the Canvas Grade Book and students should monitor their grading status through this tool. Grades will be posted within 7 days after of the due date.

Grading Policy: Exams, Quizzes, and Assignments are due by midnight on the date assigned in Canvas. Typically, this is 11:59 PM on Wednesdays. A 5-point penalty will be assessed for each day a requirement is late.

COURSE OUTLINE AND CALENDAR

Complete Course Calendar

Week	Class	Date	DOW	Class Activity	What's Due	Notes
1	1	01/13/2020	Mon	Intro & Chapter 1		
1	2	01/15/2020	Wed	Chapters 1&2	Syllabus Quiz	
2		01/20/2020	Mon			MLK
2	3	01/22/2020	Wed	Chapter 2	Assignment 1	
3	4	01/27/2020	Mon	Chapter 3		
3	5	01/29/2020	Wed	Chapter 3	Quiz 1	
4	6	02/03/2020	Mon	Chapter 4		
4	7	02/05/2020	Wed	Chapter 4	Assignment 2	
5	8	02/10/2020	Mon	Chapter 4		
5	9	02/12/2020	Wed	Chapter 5	Quiz 2	
6	10	02/17/2020	Mon	Chapter 5		
6	11	02/19/2020	Wed	Chapter 6	Assignment 3	
7	12	02/24/2020	Mon	Chapter 6		
7	13	02/26/2020	Wed	Chapter 6	Quiz 3	
8	14	03/02/2020	Mon	Review		
8	15	03/04/2020	Wed	Midterm Exam	Exam (in class)	
		03/09/2020	Mon			Spring Break
		03/11/2020	Wed			Spring Break
9	16	03/16/2020	Mon	Chapter 7		
9	17	03/18/2020	Wed	Chapter 7	Assignment 4	
10	18	03/23/2020	Mon	Chapter 7		
10	19	03/25/2020	Wed	Chapter 8	Assign 4 & Quiz 4	
11	20	03/30/2020	Mon	Chapter 8		
11	21	04/01/2020	Wed	Chapter 8	Assignment 5	
12	22	04/06/2020	Mon	Chapter 9		
12	23	04/08/2020	Wed	Chapter 9	Quiz 5	
13	24	04/13/2020	Mon	Chapter 10		
13	25	04/15/2020	Wed	Chapter 10	Assignment 6	
14	26	04/20/2020	Mon	Chapter 11		
14	27	04/22/2020	Wed	Chapter 11	Quiz 6	
15	28	04/27/2020	Mon	Chapter 12		
15	29	04/29/2020	Wed	Chapter 12	Term Project	
16	30	05/04/2020	Mon	Review		
16	31	05/06/2020	Wed	Final Exam	Exam (in class)	

University Calendar

Date	Activity
01/13/2020	Classes Begin for Spring Semester
01/15/2020	Deadline for Add, Drop, and Late Registration for 16- and First 8-Week Classes
01/20/2020	Martin Luther King, Jr Day (University Closed)
01/21/2020	Deadline to Drop First 8-Week Classes with No Record
01/29/2020	Deadline to Drop 16-Week Classes with No Record
02/21/2020	Deadline to Drop First 8-Week Classes with a Quit (Q) or Withdraw (W)
03/01/2020	Deadline for Teacher Education and Professional Certification Applications
03/06/2020	Classes end for 1st 8-Weeks
03/09/2020	Spring Break (No Classes - Administrative Offices Open)
03/10/2020	Spring Break (No Classes - Administrative Offices Open)
03/11/2020	Spring Break (No Classes - Administrative Offices Open)
03/12/2020	Spring Break (No Classes - Administrative Offices Open)
03/13/2020	Spring Break (University Closed)
03/10/2020	Deadline for Faculty Submission of First 8-Week Final Class Grades (due by 3pm)
03/15/2020	Deadline for Clinical Teaching/Practicum Applications
03/16/2020	Add, Drop, and Late Registration Begins for Second 8-Week Classes
03/16/2020	Classes Begin for Second 8-Week Session
03/16/2020	Class Schedule Published for Summer Semester
03/18/2020	Deadline for Add, Drop, and Late Registration for Second 8-Week Classes
03/23/2020	Deadline to Drop Second 8-Week Classes with No Record
03/27/2020	Deadline for Graduation Application for Ceremony Participation
03/30/2020	Registration Opens for Seniors, Post-Bacc, and Graduate Students for Summer
04/03/2020	Deadline to Drop 16-Week Classes with a Quit (Q) or Withdraw (W)
04/06/2020	Registration opens for all students for the Summer and Fall Semesters
04/24/2020	Deadline to Drop Second 8-Week Classes with a Quit (Q) or Withdraw (W)
05/08/2020	Deadline for Applications for Tuition Rebate for Spring Graduation (5pm)
05/08/2020	Deadline for Degree Conferral Applications to the Registrar's Office
05/08/2020	Deadline to Withdraw from the University for 16- and Second 8-Week Classes
05/08/2020	Spring Semester Ends
05/09/2020	Spring Commencement Ceremony

TECHNOLOGY REQUIREMENTS AND SUPPORT

Technology Requirements.

This course will require that you produce Microsoft Word documents.

This course will use the TAMUCT Instructure Canvas learning management system. We strongly recommend the latest versions of Chrome or Firefox browsers. Canvas no longer supports any version of Internet Explorer.

Logon to TAMUCT Canvas [<https://tamuct.instructure.com>]

Username: Your MyCT username

(xx123 or everything before the "@" in your MyCT e-mail address)

Password: Your MyCT password

Canvas Support

Use the Canvas Help link, located at the bottom of the left-hand menu, for issues with Canvas. You can select "Chat with Canvas Support," submit a support request through "Report a Problem," or call the Canvas support line: 1-844-757-0953.

For issues related to course content and requirements, contact your instructor.

Technology Support.

For technology issues, students should contact Help Desk Central.

24 hours a day, 7 days a week:

Email: helpdesk@tamu.edu

Phone: (254) 519-5466

Web Chat: <http://hdc.tamu.edu>

Please let the support technician know you are an A&M-Central Texas student.

Technology issues are not an excuse for missing a course requirement – make sure your computer is configured correctly and address issues well in advance of deadlines.

COURSE AND UNIVERSITY RESOURCES, PROCEDURES, AND POLICIES

Drop Policy

If you discover that you need to drop this class, you must complete a [Drop Request Form](https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf) [https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf].

Professors cannot drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the Academic Calendar for which the form must be completed, signed and returned. Once you return the signed form to the Registrar's Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar's Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

Academic Integrity

Texas A&M University -Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student's academic performance and includes, but is not limited to, working with others in an unauthorized manner, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student's work, collusion, and the abuse of resource materials. All academic misconduct concerns will be referred to the university's Office of Student Conduct. Ignorance of the university's standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

For more [information regarding the Student Conduct process](https://www.tamuct.edu/student-affairs/student-conduct.html), [https://www.tamuct.edu/student-affairs/student-conduct.html].

If you know of potential honor violations by other students, you may [submit a report](https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0), [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0].

Academic Accommodations

At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier-free education. The Office of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the university's programs, services and activities. If you believe you have a disability requiring reasonable accommodations please contact the Office of Access and Inclusion, WH-212; or call (254) 501-5836. Any information you provide is private and

confidential and will be treated as such.

For more information please visit our [Access & Inclusion](#) Canvas page (log-in required) [<https://tamuct.instructure.com/courses/717>]

Important information for Pregnant and/or Parenting Students

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related guidance from US Department of Education's Office of Civil Rights, the Dean of Student Affairs' Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. Students should seek out assistance as early in the pregnancy as possible. For more information, please visit [Student Affairs](https://www.tamuct.edu/student-affairs/index.html) [<https://www.tamuct.edu/student-affairs/index.html>]. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these [requirements and guidelines](#) online, please visit the website [<http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf>].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender—including pregnancy, parenting, and all related conditions. A&M-Central Texas is able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Associate Dean in the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also contact the University's Title IX Coordinator.

Tutoring

Tutoring is available to all A&M-Central Texas students, both on-campus and online. Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111. Tutor.com tutoring **will not offer writing support** beginning August 1, 2019, but will continue to offer other tutoring support.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or have any other question, contact Academic Support Programs at (254) 501-5836, visit the Office of Student Success at 212F Warrior Hall, or by emailing studentsuccess@tamuct.edu .

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log in and receive online tutoring support at no additional cost. This tool provides tutoring in over 40 subject areas. Access Tutor.com through Canvas.

University Writing Center

Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University-Central Texas (TAMUCT) is a free workspace open to all TAMUCT students from 10:00 a.m.-5:00

p.m. Monday thru Thursday with satellite hours in the University Library Monday thru Thursday from 6:00-9:00 p.m. This semester, the UWC is also offering online only hours from 12:00-3:00 p.m. on Saturdays.

Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students' ideas and writing, our tutors highlight the ways in which they read and interpret students' texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the UWC is here to help!

Students may arrange a one-to-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via [WOnline](https://tamuct.mywconline.com/) [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu if you have any questions about the UWC and/or need any assistance with scheduling.

University Library

The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 85,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available 24 hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our [Library website](http://tamuct.libguides.com/index) [http://tamuct.libguides.com/index].

INSTRUCTOR POLICIES

Policies related to absence, grading, etc.

- You are responsible for all class material presented during an absence.
- All work is submitted through Canvas and due on the specified due date/time.
- A penalty of 5 points per day is applied to late Exams, Quizzes, and Assignments.
- Most assignments can be submitted multiple times, even after grading
- Late penalties are also applied to resubmitted items
- Missed exams, quizzes, and assignments will receive a grade of zero.

My Personal Statement

- You will receive feedback in the form of graded assignments within 7 days after the due date.
- I want you to read the feedback that I provide to you (your personal grading notes, Canvas emails, and Canvas discussion forums).
- I am almost always available via email and typically respond within 24 hours except on weekends.
- I prefer email over phone conversations

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Section Not Used