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Virtual Office Hours: By Appointments

Course Information

Course Format

The course was delivered online using a supporting [Canvas](#) website. All course materials are provided online, with the expectation that students will read the assigned readings to complete their assignments. Ten learning modules that reflect the most current issues in the information security and cyber-security fields are used as a framework to organize and deliver online course materials to students.

Course Descriptions

This is a 3-credit course. The course introduces students to various technical and administrative aspects of information security and cybersecurity. The course provides a foundation for understanding the key issues associated with protecting information and knowledge assets, as well as determining the levels of protection and response to security and privacy threats. Additionally, the course deals with intrusion and privacy issues, as well as reporting and managing incidents. Students will be exposed to a wide range of security/privacy concepts, case studies, lessons learned, and

methods for dealing with security/privacy threats in an ever-changing global information environment.

Prerequisites

There are no prerequisites for INFO 5737.

Learning Modules

The course content of INFO 5737 is organized into ten learning modules.

Module 1: Introduction to Information Security/Cyber-Security and Asset Security

Module 2: Security Management

Module 3: Risk Management

Module 4: Security Architecture

Module 5: Security Engineering

Module 6: Communication and Network Security

Module 7: Identity and Access Management

Module 8: Security Assessment and Testing

Module 9: Security Operations

Module 10: Security in the Software Development

Course Goals and Objectives

Goals:

To introduce you to the nature and scope of the information security and cyber-security fields to guide you in applying information security and cyber-security knowledge in your future career.

Objectives:

Upon completion of this course, you will be able to:

- Discover the basic scope of the information security and cyber-security profession
- Recognize the various obligations for strong cyber-security practices
- Illustrate the elements of information and cyber-security
- Distinguish why information security and cyber-security matter throughout industries
- Discriminate between the concepts and knowledge involved in information security and cyber-security
- Examine ethics, values, norms, and foundational principles of information security, cyber-security, and information privacy
- Categorize the roles and attributes of an effective information and knowledge professional
- Identify potential risks throughout the digital environment

- Classify methods to safeguard information and digital assets
- Translate essential knowledge of information and cyber-security

Course Materials

Textbook

Deane, A.J. & Kraus, A. (2021) *The Official (ISC)2 CISSP CBK Reference, 6th Edition*, Wiley.

PS: [CISSP \(Certified Information Systems Security Professional\)](#), the first and one of the most well-known credentials in the field of information security, won the US SC Awards for the “Best Professional Certification Program” in 2014, 2015, 2016, 2019, and 2021. In particular, CISSP regularly updated its exam outline in 2015, 2018, 2021, and 2024. Its [common body of knowledge \(CBK\)](#) reflects the most comprehensive and current topics and issues in the emerging cyber-security field.

Recommended Texts

1. Maleh, Y., Alazab, M., & Romdhani, I. (Eds.). (2023). *Blockchain for Cybersecurity in Cyber-Physical Systems*. Springer.
2. Mongeau, S. A. (2021). *Cybersecurity Data Science*. Springer.
3. Sipola, T., Kokkonen, T., & Karjalainen, M. (Eds.). (2023). *Artificial Intelligence and Cybersecurity: Theory and Applications*. Springer Nature.
4. Tehan, R. (2018). [Cybersecurity: Data, Statistics, and Glossaries](#), Washington, D. C: Library of Congress, Congressional Research Service.
5. Thakur, K., Pathan, A.-S. K., & Ismat, S. (2023). [Emerging ICT Technologies and Cybersecurity: from AI and ML to other Futuristic Technologies](#). Springer.

Required and Supplementary Readings

Supplemental readings are required for each of the ten modules. Required readings are listed on the Canvas course website; they are either directly linked from the website or can be easily retrieved through the UNT Libraries main catalog or electronic resources database (<http://www.library.unt.edu/>).

Course Requirements

Module Learning Activities (50% of Final Grade)

Each module will have various activities, including concept mapping, online discussions regarding how to learn and apply the concepts to the practices, and information sharing. Each module has a single deadline for completion of the reading(s) and discussion participation.

- **Synthesis Concept Mapping Assignments (20%):** As a note-taking tool, students are required to organize/synthesize at least three key concepts from each common body of knowledge domain and/or assigned readings for the learning modules using the concept-mapping tool, [Cmap](#). A short reading reflection is required for each module with assigned readings. Each synthesis will

contain a concept map, five important direct quotes (which you use to construct your concept map), a reflection, and references. The students will receive a grade of 0-100 based on the instructor's evaluation using a rubric. Students should submit their assignments on the respective assignment pages on Canvas. It is important that the content of each concept map, quotes, and reflection of the modules are the students own original work. The students were required to submit **all five** concept map assignments.

- **Online Discussions (20%):** All students are expected to monitor and interpret current information/cyber security news (in the last two years) or studies (in the last three years) and provide links to news stories, publications, or events relevant to the topics of the learning modules. This will help students stay informed of recent developments and learn from each other's perspectives through online information sharing and discussions. Students should share current information or resources relevant to the corresponding module discussion and respond constructively to at least two student postings. The postings should be between 200-300 words and should refer to/cite the information source(s). Each discussion post should be the individual student's original work. Students must submit **all five** discussion posts.
- **Quizzes (10%):** Each module will have one quiz containing 15–20 multiple-choice questions. The quiz covers the materials introduced in the given module, particularly the review questions in the textbook and important topics highlighted in the slides. Students must take a **minimum of five quizzes**. Only **five highest grades** will be considered.

Cyber-Security Intervention/Innovation Project or Research (25% of Final Grade)

Both public and private sectors across industries are striving for a secure environment through cyber security intervention/innovation, which could be an information/cyber security policy, a new cyber security awareness program, a new security process, or security innovation to support the delivery of intervention. The purpose of this project, either research- or practice-oriented, is to allow students to gain an understanding of implementing intervention/ innovations or conducting research at the personal, organizational, national, or international level, and their influences on ensuring better information security or cyber security. This project also helps students research information/cyber security and come up with new findings.

Additionally, this is a great opportunity to develop cybersecurity skills and knowledge. Students will work **individually** or **collaboratively** on this project. Students are required to choose a topic from a list provided by the instructor. Please cite reliable sources in the references. Students are expected to document their sources and will be required to employ the [APA Manual of Style \(7th Edition\)](#) as the citation guide. Students should submit both the one-page proposal and the final project through Canvas Turnitin.

Students should *submit a one-page proposal describing the research/intervention/innovation topic they have decided to study and the reason/motivation for choosing the research/intervention/innovation by March 22, 2026*. Once the topic is approved, students can proceed with the project.

During the last three weeks of the class, depending on the interests and/or availability of the students, the instructor will accommodate an online meeting for final project presentations in which students will describe their projects and share what they have learned with their peers. The length of the presentations will depend on course enrollment and participation.

Mid-Term Exam (10% of Final Grade)

In terms of examination format, the mid-term exam consisted of fifty (50) multiple-choice questions with four choices each. The mid-term exam will cover the first **five** modules in the course and will not go beyond the scope of the review questions and module quizzes in the textbook.

Final Exam (15% of Final Grade)

The final exam covers the full spectrum of materials presented during the course. In terms of examination format, the final exam consisted of sixty (60) multiple-choice questions with four choices each and short answer questions (choosing five out of seven questions). The final exam will cover material introduced since the first module and contain 25% of the mid-term exam.

Late Work: The instructor will not grade any late work unless you *notify* the instructor **24 hours before the assignment is due**. However, **five points** will be deducted for each day an assignment is late. Extensions may be granted in advance of the due date for reasonable causes. Exceptions may be made on an individual basis in cases of emergency.

Assessment and Grading

Assignment grading is based on rubric attached to each assignment description on Canvas.

Activities	Grading Percentages
Learning Module Activities	50%
Cyber-security Research/Intervention or Innovation Project	25%
Midterm Exam	10%
Final Exam	15%

Grading Scale

The UNT scale for grading is as follows:

A (Excellent work) = 90 - 100 points

B (Good work) = 80 - 89 points

C (Fair work) = 70 - 79 points

D = 60 - 69 points

F = 59 points and below

Grading Criteria

- **Deadlines:** All assignments must be submitted via Canvas before midnight on the due date. **Five points** will be deducted for each day an assignment is late. You must notify the instructor if your assignment is late.
- **Completeness:** Assignments are detailed. Avoid losing points for incompleteness or failure to follow instructions. If you do not understand the assignments, ask the instructor for help before the deadline.

Grading Timeframe

You can expect to receive a grade for any graded assignment approximately seven days after the due date of the assignment or peer grading. If you submit an assignment before the due date, please do not include early days in your day count. The instructor will contact the students if the grading goes beyond that timeframe.

Course Schedule (subject to change at instructor's discretion)

No.	Week	Activities	Assignment Due
1	1/12 ~ 1/18	Welcome and Course Introduction Read syllabus to get an overview of the course, post self-introduction (on Canvas Discussions)	1/18
2	1/19 ~ 1/25	Module 1 Concept Map and Quiz *No Discussion this week Textbook: Domain 2 (Asset Security)	1/25
3	1/26 ~ 2/1	Module 2 Discussion post *No Quiz and Concept Map this week Textbook: Domain 1 (Security and Risk Management)	2/1

4	2/2 ~ 2/8	Module 2&3 Concept Map and Quiz <i>*No Discussion this week</i> Textbook: Domain 1(Security and Risk Management); Domain 8 (Software Development Security): Risk Analysis and Mitigation in the context of software development.	2/8
5	2/9/ ~ 2/15	Module 4 Discussion post <i>*No Quiz and Concept Map this week</i> Textbook: Domain 3 (Security Architecture and Engineering)	2/15
6	2/16 ~ 2/22	Module 4&5 Concept Map and Quiz <i>*No Discussion this week</i> Textbook: Domain 3 (Security Architecture and Engineering)	2/22
7	2/23 ~3/1	Midterm Exam	3/1
8	3/2 ~ 3/8	Module 6 Concept Map and Quiz <i>*No Discussion this week</i> Textbook: Domain 4 (Communication and Network Security)	3/8
9	3/9 ~ 3/15	Spring break (no classes)	
10	3/16 ~ 3/22	Project Proposal (Canvas)	3/22
11	3/23 ~ 3/29	Module 7 Discussion post and Quiz <i>*No Concept Map this week</i> Textbook: Domain 5 (Identity and Access Management)	3/29
11	3/30 ~ 4/5	Module 8 Discussion post and Quiz Textbook: Domain 6 (Security Assessment and Testing)	4/5
12	4/6 ~ 4/12	Module 9 Discussion post and Quiz <i>*No Concept Map this week</i> Textbook: Domain 7 (Security Operations)	4/12
13	4/13 ~ 4/19	Module 10 Concept Map and Quiz Textbook: Domain 8 (Software Development Security)	4/19
14	4/20 ~ 4/26	Project Presentations (via online meeting or submitting project summary slides)	4/26
15	4/27 ~ 5/3	Guest Lecture (Ms. Wendy Wang from Amazon Web Services) Final Project Paper (Canvas)	TBD 5/3
16	5/4 ~ 5/10	Final Exam	5/10

Technical Requirements/Assistance

The following information has been provided to assist you in preparation for the technological aspects of the course.

Understanding and use of the following are required:

- Canvas online course software
- Slide presentation software (.ppt files)
- Word processing software (.docx files)
- Internet search, navigation, and application of new programs
- University of North Texas online library and databases - <https://library.unt.edu/>

The University Information Technology (UIT) Helpdesk offers helpful resources and addresses any issues that might arise with Canvas (<http://www.unt.edu/helpdesk/>).

1. Be sure you are using a supported web browser. Canvas supports the current and first previous major releases of the following browsers:

- Chrome 70 and 71
- Firefox 63 and 64 (Extended Releases are not supported)
- Flash 31 and 32 (used for recording or viewing audio/video and uploading files)
- Internet Explorer 11 (Windows only—functionally supported; may exhibit slight visual differences from other browsers, but these differences do not restrict product functionality)
- Edge 42 and 44 (Windows only)
- Respondus Lockdown Browser (supporting the latest system requirements)
- Safari 11 and 12 (Macintosh only)

Commonly used 3rd party plug-ins you may need to install for this course:

- Acrobat Reader
- Real Player
- Flash
- Shockwave
- Windows Media Player

2. Additional help for using Canvas

You will need word processing software such as Word 2010. Acceptable file formats include .txt, .rtf, .doc, and .docx. <https://community.canvaslms.com/docs/DOC-10554-4212710328>

3. Student Support

The University of North Texas provides student technical support in the use of Canvas and supported resources. The student help desk may be reached at:

Website: <http://www.unt.edu/helpdesk/>

Phone: 940.565-2324

In Person: Sage Hall, Room 330

Regular hours are maintained to provide support to students. Please refer to the website for updated hours.

Getting Started with Canvas

Access and Log in Information

This course was developed and will be facilitated utilizing the University of North Texas' Learning Management System, Canvas. To get started with the course, please go to: <https://unt.instructure.com/>. You will need your EUID and password to log in to the course. If you do not know your EUID or have forgotten your password, please go to: <https://ams.unt.edu/>.

Canvas Student Guide

As a student, you will have access to the “Canvas Student Guide” tutorial via Canvas. You are strongly encouraged to become familiar with the tools and tutorials within the student orientation to better equip you to navigate the course.

Accessing Grades

As assignments are graded, grades will be posted in the class grade book. Effort will be made to complete grading and post grades expeditiously, so please be patient. If a student has a question about a grade, please consult the rubric first before contacting the instructor.

Assignment Submission Instructions

Please do not wait until the last minute to post assignments as technical problems may occur.

IT Resources

- UNT Portal: <http://my.unt.edu>
- UNT Canvas Student Support:
<https://community.canvaslms.com/docs/DOC-10554-4212710328>
- General access computer lab information (including locations and hours of operation) can be located at: <https://computerlabs.unt.edu/>
- UNT Library Information for Off-Campus Users:
<http://www.library.unt.edu/services/facilities-and-systems/campus-access>
- UNT Computing and Information Technology Center
- Computer Lab at Discovery Park:
<https://itservices.engineering.unt.edu/computer-lab>

Policies

Canvas (Instructure) Privacy Policy - Last Updated: November 17, 2017

Instructure, Inc. (“INSTRUCTURE”) is committed to protecting your privacy. We have prepared this Privacy Policy to describe our practices regarding the personal information that may be collected from users of our websites, including <https://www.instructure.com> and

http://www.canvas.net and any other sites that link to this Privacy Policy (“SITE”), Instructure’s Canvas iOS and Android Applications (“APPS”), and other related educational services (“SERVICES”). By submitting personal information through our Site, Apps, or Services, you expressly consent to the processing of your personal information in the U.S. in accordance with this Privacy Policy. The use of personal information collected through our service shall be limited to the purposes described in this Privacy Policy.
<https://www.instructure.com/policies/privacy>

Google Privacy Policy

Access here: <https://policies.google.com/privacy>

YouTube Privacy Policies

Access here: <https://www.youtube.com/yt/about/policies/#community-guidelines>

Canvas Accessibility Statement

<https://community.canvaslms.com/docs/DOC-2061-accessibility-within-canvas>

Google Accessibility Statement

<https://www.google.com/accessibility/#!#google>

YouTube Accessibility - Using YouTube with a Screen Reader

<https://support.google.com/youtube/answer/189278?hl=en>

UNT Policies

Academic Integrity Policy

Academic Integrity Standards and Consequences. According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

ADA Policy

UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one’s specific course needs. Students may request accommodations at any time; however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the ODA website (<https://disability.unt.edu/>)

Prohibition of Discrimination, Harassment, and Retaliation (Policy 16.004)

The University of North Texas (UNT) prohibits discrimination and harassment because of race, color, national origin, religion, sex, sexual orientation, gender identity, gender expression, age, disability, genetic information, veteran status, or any other characteristic protected under applicable federal or state law in its application and admission processes; educational programs and activities; employment policies, procedures, and processes; and university facilities. The University takes active measures to prevent such conduct and investigates and takes remedial action when appropriate.

Emergency Notification & Procedures

UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence). In the event of a university closure, please refer to Canvas for contingency plans for covering course materials.

Retention of Student Records

Student records pertaining to this course are maintained in a secure location by the instructor of record. All records such as exams, answer sheets (with keys), and written papers submitted during the duration of the course are kept for at least one calendar year after course completion. Course work completed via the Canvas online system, including grading information and comments, is also stored in a safe electronic environment for one year. Students have the right to view their individual record; however, information about student's records will not be divulged to other individuals without proper written consent. Students are encouraged to review the Public Information Policy and the Family Educational Rights and Privacy Act (FERPA) laws and the University's policy. See UNT Policy 10.10, Records Management and Retention for additional information.

Acceptable Student Behavior

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc. Visit UNT's [Code of Student Conduct](#) (<https://deanofstudents.unt.edu/conduct>) to learn more.

Access to Information - Eagle Connect

Students' access point for business and academic services at UNT is located at: <https://my.unt.edu/>. All official communication from the University will be delivered to a student's Eagle Connect account. For more information, please visit the website that explains Eagle Connect and how to forward e-mail [Eagle Connect](#) (<https://it.unt.edu/eagleconnect>).

Sexual Assault Prevention

UNT is committed to providing a safe learning environment free of all forms of sexual misconduct, including sexual harassment, sexual assault, domestic violence, dating violence, and stalking. Federal laws (Title IX and the Violence Against Women Act) and UNT policies prohibit discrimination on the basis of sex, and therefore prohibit sexual misconduct. If you or someone you know is experiencing sexual harassment, relationship violence, stalking, and/or sexual assault, there are campus resources available to provide support and assistance. UNT's Survivor Advocates can assist a student who has been impacted by violence by filing protective orders, completing crime victim's compensation applications, contacting professors for absences related to an assault, working with housing to facilitate a room change where appropriate, and connecting students to other resources available both on and off campus. The Survivor Advocates can be reached at SurvivorAdvocate@unt.edu or by calling the Dean of Students Office at 940-565-2648. Additionally, alleged sexual misconduct can be non-confidentially reported to the Title IX Coordinator at oeo@unt.edu or at (940) 565 2759.

Important Notice for F-1 Students taking Distance Education Courses:

Federal Regulation

To read detailed Immigration and Customs Enforcement regulations for F-1 students taking online courses, please go to the Electronic Code of Federal Regulations website. The specific portion concerning distance education courses is located at "Title 8 CFR 214.2 Paragraph (f)(6)(i)(G)" and can be found buried within this document: <http://frwebgate.access.gpo.gov/cgi-bin/get-cfr.cgi?TITLE=8&PART=214&SECTION=2&TYPE=TEXT>

The paragraph reads:

(G) For F-1 student enrolled in classes for credit or classroom hours, no more than the equivalent of one class or three credits per session, term, semester, trimester, or quarter may be counted toward the full course of study requirement if the class is taken on-line or through distance education and does not require the student's physical attendance for classes, examination or other purposes integral to completion of the class. An on-line or distance education course is a course that is offered principally through the use of television, audio, or computer transmission including open broadcast, closed circuit, cable, microwave, or satellite, audio conferencing, or computer conferencing. If the F-1 student's course of study is in a language study program, no on-line or distance education classes may be considered to count toward a student's full course of study requirement.

University of North Texas Compliance

To comply with immigration regulations, an F-1 visa holder within the United States may need to engage in an on-campus experiential component for this course. This component (which must be approved in advance by the instructor) can include activities such as taking an on-campus exam, participating in an on-campus lecture or lab activity, or other on-campus experience integral to the completion of this course.

If such an on-campus activity is required, it is the student's responsibility to do the following:

1. Submit a written request to the instructor for an on-campus experiential component within one week of the start of the course.
2. Ensure that the activity on campus takes place and the instructor documents it in writing with a notice sent to the International Student and Scholar Services Office. ISSS has a form available that you may use for this purpose.

Because the decision may have serious immigration consequences, if an F-1 student is unsure about his or her need to participate in an on-campus experiential component for this course, s/he should contact the UNT International Student and Scholar Services Office (telephone 940-565-2195 or email internationaladvising@unt.edu) to get clarification before the one-week deadline.

Academic Support & Student Services

Student Support Services

Mental Health

UNT provides mental health resources to students to help ensure there are numerous outlets to turn to that wholeheartedly care for and are there for students in need, regardless of the nature of an issue or its severity. Listed below are several resources on campus that can support your academic success and mental well-being:

- [Student Health and Wellness Center](https://studentaffairs.unt.edu/student-health-and-wellness-center) (<https://studentaffairs.unt.edu/student-health-and-wellness-center>)
- [Counseling and Testing Services](https://studentaffairs.unt.edu/counseling-and-testing-services) (<https://studentaffairs.unt.edu/counseling-and-testing-services>)
- [UNT Care Team](https://studentaffairs.unt.edu/care) (<https://studentaffairs.unt.edu/care>)
- [UNT Psychiatric Services](https://studentaffairs.unt.edu/student-health-and-wellnesscenter/services/psychiatry) (<https://studentaffairs.unt.edu/student-health-and-wellnesscenter/services/psychiatry>)
- [Individual Counseling](https://studentaffairs.unt.edu/counseling-and-testingservices/services/individualcounseling) (<https://studentaffairs.unt.edu/counseling-and-testingservices/services/individualcounseling>)

Chosen Names

A chosen name is a name that a person goes by that may or may not match their legal name. If you have a chosen name that is different from your legal name and would like that to be used in class, please let the instructor know. Below is a list of resources for updating your chosen name at UNT.

- [UNT Records](#)
- [UNT ID Card](#)
- [UNT Email Address](#)
- [Legal Name](#)

**UNT eUIDs cannot be changed at this time. The collaborating offices are working on a process to make this option accessible to UNT community members.*

Pronouns

Pronouns (she/her, they/them, he/him, etc.) are a public way for people to address you, much like your name, and can be shared with a name when making an introduction, both virtually and in-person. Just as we ask and don't assume someone's name, we should also ask and not assume someone's pronouns.

You can [add your pronouns to your Canvas account](#) so that they follow your name when posting to discussion boards, submitting assignments, etc.

Below is a list of additional resources regarding pronouns and their usage:

- [What are pronouns and why are they important?](#)
- [How do I use pronouns?](#)
- [How do I share my pronouns?](#)
- [How do I ask for another person's pronouns?](#)
- [How do I correct myself or others when the wrong pronoun is used?](#)

Additional Student Support Services

- [Registrar \(<https://registrar.unt.edu/registration>\)](#)
- [Financial Aid \(<https://financialaid.unt.edu/>\)](#)
- [Student Legal Services \(<https://studentaffairs.unt.edu/student-legal-services>\)](#)
- [Career Center \(<https://studentaffairs.unt.edu/career-center>\)](#)
- [Multicultural Center \(<https://edo.unt.edu/multicultural-center>\)](#)
- [Counseling and Testing Services \(<https://studentaffairs.unt.edu/counseling-and-testing-services>\)](#)
- [Pride Alliance \(<https://edo.unt.edu/pridealliance>\)](#)
- [UNT Food Pantry \(<https://deanofstudents.unt.edu/resources/food-pantry>\)](#)

Academic Support Services

- [Academic Resource Center \(<https://clear.unt.edu/canvas/student-resources>\)](#)
- [Academic Success Center \(<https://success.unt.edu/asc>\)](#)
- [UNT Libraries \(<https://library.unt.edu/>\)](#)
- [Writing Lab \(<http://writingcenter.unt.edu/>\)](#)