Sul Ross State University
Seminar in Cybersecurity
SUMMER 2023
CJ 5338 Syllabus

Instructor: Oguzhan Basibuyuk, Ph.D
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Class hours/ Classroom: Online
Office hours: Tuesday**,** Wednesday, and Thursday between 1:00 PM and 3 PM
REQUIRED READINGS
-Michael E. Whitman and Herbert J. Mattord. *Principles of Information Security, 6th Edition*. Cengage, 2018, ISBN-13 9781337102063
RECOMMENDED READINGS
- Michael E. Whitman, Herbert J. Mattord, Andrew Green Guide to Firewalls and VPNs, 3rd Edition. ISBN-13: 978-1-111-13539-3
- Michael Whitman, Herbert Mattord, Andrew Green, Hands-on Information Security Lab Manual, 4th Edition ISBN-13: 978-1-285-16757-2
- Bandler, J. & Merzon, A. (2020). Cybercrime Investigations: A comprehensive Resource for Everyone. ISBN 9781003033523. CRC Press.
Other course readings (e.g., articles, reports) will be posted on Blackboard.
SRSU LIBRARY SERVICES
The Sul Ross Library offers FREE resources and services to the entire SRSU community. Access and borrow books, articles, and more by visiting the library's website, www.library.sulross.edu . Off-campus access requires your LoboID and password. Check out materials using your photo ID. Librarians are a tremendous resource for your coursework and can be reached in person, by email (srsulibrary@sulross.edu), or phone (432-837-8123).
Once you logged in to your Sul Ross Account on Blackboard you should be automatically connected to the library webpage as well. Thus, you can browse the online databases of the University and reach the articles on the reading list.
Syllabus is subject to updates and changes always look to the course announcements and reminders for updates. The faculty member reserves the right to amend this syllabus as needed.
SOME USEFUL WEBSITES FOR RESEARCH DATA
1- Computer Crime and Intellectual Property Section (CCIPS) of the Department of Justice https://www.justice.gov/criminal-ccips
2- CCIPS Press Releases – 2019 https://www.justice.gov/criminal-ccips/ccips-press-releases-2019
3- FBI The Uniform Crime Reports https://www.fbi.gov/services/cjis/ucr
4- DOJ Bureau of Justice Statistics https://www.bjs.gov/
5- National Crime Victimization Survey http://www.bjs.gov/index.cfm?ty=dcdetail&iid=245
6- National Computer Security Survey http://www.bjs.gov/index.cfm?ty=dcdetail&iid=260
7- International Crime Victim Survey http://www.unicri.it/services/library_documentation/publications/icvs/
8- General Social Survey https://www150.statcan.gc.ca/n1/en/catalogue/89F0115X
9- Executive Order 13636 https://www.whitehouse.gov/the-press-office/2013/02/12/executive-order-improving-critical-infrastructure-cybersecurity
10- NIST Cybersecurity Framework https://www.nist.gov/cyberframework

11- UNODC Comprehensive Study on Cybercrime https://www.sbs.ox.ac.uk/cybersecurity-capacity/content/unodc-comprehensive-study-cybercrime

12- Internet Crime Complaint Center https://www.ic3.gov/default.aspx

RECOMMENDED VIDEO RESOURCES FOR THE COURSE

1. Targeted Cyber Attack Reality—Don't Be a Victim—Trend Micro, https://www.youtube.com/watch?v=0hs8rc2u5ak
2. Three Alleged International Cyber Criminals Charged for Creating & Distributing the Gozi Virus, https://www.youtube.com/watch?v=yk32_8UFL8w
3. Cesare Lombroso, Left Handedness, and the Criminal Mind, https://www.youtube.com/watch?v=HmdAYqqc8gc
4. Kevin Mitnick, The Cyberspace Kid, https://www.youtube.com/watch?v=fQKF3m45-rI
5. Anonymous - The Hacker Wars Full Documentary https://www.youtube.com/watch?v=ku9edEKvGuY
6. Hackers National Geographic Full documentary https://www.youtube.com/watch?v=eqdkSizQLRk
7. Stalking Amanda Todd: The Man in the Shadows—The Fifth Estate, https://www.youtube.com/watch?v=GRidpO7kUO0
8. Cyberstalking Documentary—Crime & Investigation Channel, https://www.youtube.com/watch?v=BZ6LByl0pgw
9. Navigating the Underground Darknet Black Markets and Tor Hidden Services https://www.youtube.com/watch?v=wPMg4ALAKok
10. The Silk Road: The Rise and Fall of the World's Largest Online Black Market, https://www.youtube.com/watch?v=LkRhBOZSw38
11. The Mix: Cyber-terrorism's Threat, https://www.youtube.com/watch?v=1lF3eywqD-I

COURSE DESCRIPTION

This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. The purpose of the course is to provide the student with an overview of the field of information security and assurance. Students will be exposed to the spectrum of security activities, methods, methodologies, and procedures. Coverage will include inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre and post incident procedures, technical and managerial responses, and an overview of the information security planning and staffing functions.

COURSE LEARNING OBJECTIVES

This course is designed to provide knowledge about various aspects of cybersecurity such as definition, laws and policies, and risk management in cybercrime. Upon successful completion of this course, you will be able to:

LO1- Gain knowledge and basic understanding of the key elements and basic concepts of the cybersecurity

LO2- Identify and understand the legal, ethical, and professional issues in cybersecurity

LO3- Define and discuss risk management in cybersecurity.

LO4- Identify the key national and global institutions and their roles on international cybersecurity policies and standards about cybersecurity.

MARKETABLE SKILLS:

This course is designed also to help the students for building various marketable skills to use in their in careers Criminal Justice related professions. Specifically, in this course, the following

marketable skills, which are some of the most important skills for such careers, will be emphasized during this course:

MS 1- Written Communication Skills

MS 2- Critical Thinking and

Observation **MS 3-** Multicultural

Understanding.

MS 4- Accessing Resources with Crime Data and the most current updates of legal codes and procedures.

MS 5- Teamwork and Working Collaboratively

MS 6- Analyzing the Factors Contributing to

Crime **CLASS**

ATTENDANCE/PARTICIPATION:

 Given that this is a fully online course; you cannot attend class in a traditional sense. However, students are expected to log into the class at the earliest opportunity to check the class website every day for announcements. Weekly reaction papers and quizzes are a required part of class participation.

REACTION PAPERS (10 POINTS EACH)

 You will write a reaction paper every week. Each paper must be 1 page and 1.5-spaced in 12-point Times New Roman font. Reaction papers will be related to the reading of the week. When there is more than one reading assignment, then the students **SHOULD READ ALL REQUIRED READINGS BUT WRITE REACTION PAPER ON ONE OF THEM**. A reaction paper is not a summary; rather, it should include your perspective, ideas, and critique of the reading. The due dates for the reaction papers will be Sunday at 11:00 pm each week.

WEEKLY QUIZZES (10 POINTS EACH)

 You will take a quiz every week to measure the knowledge of the week's required readings. The questions will be posted Friday at 1:00 pm and due date will be Sunday at 11:00 pm every week.

MIDTERM EXAM (100 POINT)

For your midterm exam, you will prepare an annotated bibliography of 10-12 sources as part of your final paper literature. Use scholarly, scientific, peer-reviewed articles. Credit will not be given for articles that are not from scholarly journals (The only exemption will be government/expert reports). Don't use web articles unless they are copies from a journal article, no magazines such as NYT, Time or Newsweek, etc. Scholarly research articles use the scientific method to examine an issue.

While you are preparing your bibliography, try to answer these questions about the source you are reading. These answers/annotations should include one or more sentences.

1. Name the author(s)
2. What was the purpose of the author in writing the piece?
3. What are the author's major assertions or findings?
4. How does the author support these findings?
5. Compare or contrast this work with another you have cited
6. Discuss how this work explains your selected topic
7. Information about the research methods used in the source
8. Above all write an intro paragraph about your topic and why do you think it is important

Format Rules:
    1. You will prepare your bibliography by using the American Psychological Association (APA) for showing your citations for these resources.

For APA format, you can check these websites:

https://apastyle.apa.org/style-grammar-guidelines/citations

https://owl.purdue.edu/owl/research_and_citation/apa_style/apa_formatting_and_style_guide/general_format.html

    2. 300-400 words for each article (excluding the article title)

FINAL/RESEARCH PAPER (200 POINTS)

    Since this course is specifically designed on WHITE COLLAR CRIMES, you will write a final paper on any elements of white-collar crime (policy, causes, theoretical explanations, impacts, extend, types, areas, techniques, detection, investigation, sentencing, landmark cases, etc.). Regarding formatting, a sample paper will be posted on the blackboard.

    The paper should include **AT LEAST TEN SCHOLARLY CITATIONS** (not website articles, Wikipedia, news agencies, magazines, and etc.), be ten to fifteen pages long (not including cover page and list of references), and typed double-spaced in 12-point Times New Roman font. Be sure to follow APA formatting and citation guidelines. **FINAL PAPER SUBMISSION WILL BE IN THREE SUBSEQUENT STEPS: 1- Introduction of Topic, 2- Annotated Bibliography, and 3- Final Submission. FOR IMPORTANT DATES CHECK THE ACADEMIC CALENDAR BELOW.**

ACADEMIC INTEGRITY:

    Sul Ross State University students are responsible for reading, understanding, and abiding by the Sul Ross Student Code of Conduct." Student Code of Conduct, Responsibilities, Procedures, and Rights are found in the University website.

    Sul Ross State University and the instructor of this course both place a high priority on the academic integrity of their student scholars. As a result, all institutional guidelines and instructional policies concerning academic integrity will be strictly and uniformly enforced with all students regardless of context.

    Academic integrity includes, but is not limited to, the following activities: cheating, plagiarism, collusion, fabrication, obtaining an unfair advantage, and falsifying academic records. In addition, academic dishonesty can include both actions and omissions to act in regards to academic exercises and activities. Cheating is defined here as the obtaining of information (electronic or otherwise) during an examination, the unauthorized use of books, notes, or other sources of information prior to or during an examination, the unauthorized use of books, the removal of faculty examination materials, the alteration of documents or records, or actions identifiable as occurring with the intent to defraud or use under false pretenses. Collusion is defined here as helping other students engage in acts of academic dishonesty, whether the student involved obtains any direct academic advantage from these acts. Plagiarism is defined here as the submission of the ideas, words, or artistic productions of another, without giving due credit or when attempting to falsely represent them as one's own.

APA STYLE:

    This course will use the American Psychological Association (APA) formatting and style guide for all written assignments. If you have any questions or concerns regarding the use of APA a number of resources have been provided below. Please note that all external sources must be appropriately cited. A failure to do so constitutes plagiarism and is a violation the course academic honesty standards. See www.ciationmachine.net and http://owl.english.purdue.edu/owl/resource/560/01/ for help with APA.

STUDENT SUPPORT SERVICES AND BLACKBOARD HELP DESK

Sul Ross State University has established a variety of programs to help students meet the challenges of college life. Support to students includes advising, counseling, mentoring, tutoring, supplemental instruction, and writing assistance. For a complete list of academic support services, visit the Student Support Services https://www.sulross.edu/section/311/student-support-services. For more information, students are encouraged to contact SSS at (432) 837-9118 or visit Ferguson Hall Room 105. For Blackboard help visit https://www.sulross.edu/bb or call 432-837-8523 (M-F 09:00 am-06:00 pm). You can get The Distance Education Handbook at https://tvpb.sulross.edu/start/index.html

DISTANCE EDUCATION STATEMENT

Students enrolled in distance education courses have equal access to the university's academic support services, such as Smarthinking, library resources, such as online databases, and instructional technology support. For more information about accessing these resources, visit the SRSU website. Students should correspond using Sul Ross email accounts and submit online assignments through Blackboard, which requires secure login information to verify students' identities and to protect students' information. The procedures for filing a student complaint are included in the student handbook. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook. Students in web-based courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website. Directions for filing a student complaint are located in the student handbook.

DIVERSITY STATEMENT:

"I aim to create a learning environment for my students that supports a diversity of thoughts, perspectives and experiences, and honors your identities (including race, gender, class, sexuality, religion, ability, socioeconomic class, age, nationality, etc.). I also understand that the crisis of COVID, economic disparity, and health concerns, or even unexpected life events could impact the conditions necessary for you to succeed. My commitment is to be there for you and help you meet the learning objectives of this course. I do this to demonstrate my commitment to you and to the mission of Sul Ross State University to create an inclusive environment and care for the whole student as part of the Sul Ross Familia. If you feel like your performance in the class is being impacted by your experiences outside of class, please don't hesitate to come and talk with me. I want to be a resource for you."

AMERICANS WITH DISABILITIES ACT AS AMENDED (ADAAA)

SRSU Disability Services. Sul Ross State University (SRSU) is committed to equal access in compliance with Americans with Disabilities Act of 1973. It is SRSU policy to provide reasonable accommodations to students with documented disabilities. It is the student's responsibility to initiate a request each semester for each class. Students seeking accessibility/accommodations services must contact Mary Schwartze Grisham, M.Ed., LPC, SRSU's Accessibility Services

Coordinator at 432-837-8203 (please leave a message and we'll get back to you as soon as we can during working hours), or email mschwartze@sulross.edu Our office is located on the first floor of Ferguson Hall (Suite 112), and our mailing address is P.O. Box C-122, SUI Ross State University, Alpine. Texas, 79832.

LATE ASSIGNMENT SUBMISSION POLICY:

Students are supposed to finish their coursework on time and assignments must be submitted before the deadlines. Students are expected to show appropriate cause for missing or delaying major assignments or examinations. Late assignments will not be accepted unless there is an excuse that is recognized by the university.

GRADING:

There will be one midterm exam (annotated bibliography)-100 pts, one final paper-200 pts., weekly quizzes, and reaction papers throughout the semester. Questions for exams and quizzes will be drawn from the readings and the supplemental materials posted on Blackboard. There will be no makeup exam. Every week there will be a quiz for the related chapter(s). Each quiz will worth 20 points. The total grade will be 60 for all quizzes. Weekly reaction papers will be 10 points each. The total grade for papers will be 60.

Weekly Quizzes	**50 pts (5 quizzes, 10 points each)**
Reaction papers	**50 pts (5 papers, 10 points each)**
Midterm Exam	**100 pts**
Final Paper	**200 pts**
Total	**400 pts**

 Scale:
A   400-310   B   309-260   C 259-180   D 179-80   F 79 & below

ACADEMIC CALENDAR

W	DATES	TOPICS	READINGS
1	July 10-16	Definition and necessity of Cybersecurity	- Shuler, R. (2002). How Does the Internet Work? - Whitman & Mattord, Chapters 1-2 QUIZ-1 PAPER-1
2	July 17-23	Legal and Ethical Issues and Planning for Cybersecurity **INTRODUCTION RESEARCH PAPER TOPIC**	- Whitman & Mattord, Chapters 3-5 QUIZ-2 PAPER-2
3	July 24-30	Security tolls and technology	- Whitman & Mattord, Chapters 6-7 QUIZ-3 PAPER-3
4	July 31-Aug 6	Cryptography and Physical Security **MIDTERM EXAM** **ANNOTATED BIBLIOGRAPHY**	- Whitman & Mattord, Chapters 8-9 QUIZ-4 PAPER-4
5	Aug 7-13	Implementing, staffing, and maintenance of cybersecurity	- Whitman & Mattord, Chapters 10-12 QUIZ-5 PAPER-5
6	**Aug 14**	**FINAL PAPER SUBMISSION**	**(Due Date Sunday, Aug. 14, 2023)**

END OF COURSE EVALUATIONS:

Student evaluations of faculty are administered online at the end of each term/session for all courses with five or more students. Students will receive an email containing a link to a survey for each course in which they are enrolled. All responses are anonymous.