

CIS 367:

Information and Network Security

Class Schedule: Online

Instructor: Chad Johnson
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Office hours: Tuesdays 2:00pm - 3:00pm

Course Description

This course provides a look at the systems, technology, management, and policy side of information security. As an introduction to data security, compliance, and privacy, it will offer background knowledge in fundamental security concepts and a working knowledge of threats and countermeasures. Topics will include common cyberattacks, including malware taxonomy and common vectors. Students will also learn fundamental building blocks of secure systems such as encryption, fingerprints, digital signatures and basic cryptographic protocols.

Course Objectives

- Identify common compliance and privacy concerns.
- Identify risk within a system.
- Identify and remediate common malware types.
- Understand Information Assurance principles and nomenclature
- Identify appropriate protocols
- Correctly interpret security incident reports and vulnerability alerts.

Textbook

- *Cybersecurity for Beginners*, 2nd Edition, by by Raef Meeuwisse. ISBN-13: 978-1911452034

Lectures

- Lecture notes MIGHT be posted in Canvas. I make every effort to make my notes available, but I may decline to include them at my discretion.
- Students are strongly encouraged to attend each class and actively participate in class discussions. You are also encouraged to participate in discussions and assignments
- In general, I do not believe in taking attendance. However, class attendance may be taken in any class without notification in advance.

Note: Schedule / Syllabus is tentative and subject to change.

Grading

- 6 Assignments: 60%
- 2 Exams / Papers: 40% (20% each)

Final grades will be assigned according to the following scale:

A: score \geq 90	A-: 87 \leq score $<$ 90	
B+: 83 \leq score $<$ 87	B: 80 \leq score $<$ 83	B-: 77 \leq score $<$ 80
C+: 73 \leq score $<$ 77	C: 70 \leq score $<$ 73	C-: 65 \leq score $<$ 70
D: 60 \leq score $<$ 65		
F: score $<$ 60		

Scale may be adjusted, depending on the overall performance of the class.

Exams

- Paper exams taken in class are closed book and no-computers/phones, but open-notes - whatever you can write onto the front and back of a single 3" x 5" standard index card. If you print this, use 14pt Times New Roman font, and be double-spaced. I do not often give paper exams these days, but I might so I leave this here.
- Exams taken on Canvas are open-book, and you are free to use all resources at your disposal to complete the exam. Plagiarism and cheating, however, will not be tolerated. This includes collusion - do your own work. Exams are *not* group assignments.
- Final exam is comprehensive.
- In general, any test or exam CANNOT be made up.
- If you miss a test or exam due to unavoidable circumstances (e.g., health), you must inform the instructor and a written explanation along with the supporting documents must be submitted to the instructor.

Assignments and Deadlines

- If I offer extra credit, it is worth UP TO 5%. Note that it will be near impossible to get the full 5% as the challenge has varying difficulty and you will receive no direct instruction on it (though you will learn everything you need to know to complete it in this class.)
- Each assignment must be submitted by 11:59pm on the day it is due. **Late submissions will not be accepted.**
- You must submit your assignments online through Canvas. **I will not take submissions in email, unless the university verifies that Canvas was malfunctioning or unavailable.**

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Office Hours Policy

- I prefer that you contact me via email.
- However, you are still welcome to my office to ask me any questions at any other times.
- I fear the phone.
- Virtual office hours will be posted to Canvas.

Regrading

Scores of Assignments and Exams will be posted in Canvas, and announcements will be made in Canvas. After the scores are announced, you have 7 days to request for regrading by contacting the instructor (office hours or email). Your grade will be final after 7 days.

Canvas

The Canvas URL is <https://canvas.uwsp.edu>. Use your UWSP NetID and password to login. We use Canvas for the following activities:

- Make important announcements.
- Posting assignment instructions and files.
- Students submit assignments electronically.
- Posting scores and grades.

Academic Integrity

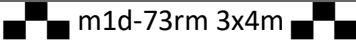

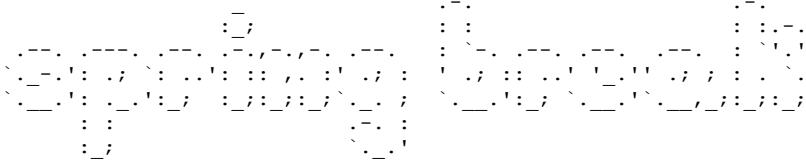
The university cannot and will not tolerate any form of academic dishonesty by its students. This includes, but is not limited to cheating on examinations, plagiarism, or collusion. **Any form of academic dishonesty may lead to F grade for this course.**

Students with Disabilities

If you require accommodation based on disability, please let me know. I am willing to provide any reasonable accommodations you require. The sooner you inform me the better.

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Week	Lecture Topics	Assignment
1	Syllabus - Introduction to Information Assurance	
2	Information Assurance Fundamentals	Assignment 1
3	Information Assurance Ethics	
4	Policy, Procedure, Standards, Guidelines	Assignment 2
5	Securing the Human - Training, Awareness	
6	Physical Security - Access Control Technologies	Assignment 3
7	Operating System Security	
8	Malware Taxonomy	 m1d-73rm 3x4m 
		
9	Malware Analysis & Anti-Virus	
10	Reverse Engineering Malware	Assignment 4
11	Information Privacy and Compliance	
12	Access Control Models	Assignment 5
13	Cryptography	
14	Network Security Systems	Assignment 6
15	Security Frameworks	
16	Final Exam	

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