



CIS 367 – Information and Network Security (4 credits)

5:00 p.m. – 6:50 p.m. TR

Location: SCI B348, D226 (Hands-on)

Instructor: Daehee (Danny) Kim, PhD

Office: B231, Science Building

Web: <http://dannykim.me>

Phone: 715-346-2078

Office Hours: 2:00 – 4:00 p.m. TR

Email: dkim@uwsp.edu

Course Description

This course provides an introduction to fundamental concepts of information and network security issues. Students learn characteristics of information security; security law and ethics; risk assessment; operations security; cryptography. This course explores security vulnerabilities, security measures, and security tools such as firewalls and intrusion detection systems.

Prerequisites

CIS357 (Server Administration)

Objectives

- Learn about common cyber-attacks including viruses, worms, denial-of-service, port scanning, spoofing, and phishing.
- Learn about identifying and defending against vulnerabilities in machines and networks.
- Understand methods for detecting and repairing infected systems.
- Study building blocks of secure systems such as encryption, digital signatures, cryptographic protocols, and access control models.
- Learn about network security topics including SYN flooding, ARP and IP spoofing, firewalls, denial of service, and intrusion detection.
- Study security topics related to database, web, mobile, and email applications. (SQL injection, spam and spam filtering)

Required Text and Material Purchase

Michael T. Goodrich and Roberto Tamassia. Introduction to Computer Security, 1st Edition. ISBN: 978-0-321-51294-9

Grading Policy:

Assessment:

- Midterm 1 20% (10/6 Thursday, in class)*
- Midterm 2 20% (11/17 Thursday, in class)*
- Final Exam 30% (12/21 Wednesday, 5:00 pm ~ 7:00 pm, Comprehensive Exam)
- 5 Assignments 25% (5% per assignment)
- Attendance 5% (sign on attendance sheet every class)

* Dates can be changed based on class progress

Grading scale:

Final grades will be determined according to the following scale:

		A	100 – 92%	A-	91 – 89%
B+	88 – 86%	B	85 – 82%	B-	81 – 79%

C+	78 – 76%	C	75 – 72%	C-	71 – 69%
D+	68 – 66%	D	65 – 60%	F	< 60%

Assignments

Assignments will be announced in class and posted on D2L. If you miss class, it is your responsibility to check D2L for any homework assignments and supporting material which may have been given out during class. I recommend that you start working on assignments as soon as possible after they have been announced. Assignments for this class almost always take longer than originally anticipated; starting early greatly increases your odds of completing the assignment to your satisfaction. Please call, email or see the instructor as soon as possible, and **before the due date**, with any questions or concerns about an assignment.

Due Dates & Late Assignments

Unless otherwise noted by the instructor, assignments should be submitted before class (soft copy of report document) and in the beginning of class (hard copy of report document) on the due date. Report document should contain following contents and use the template given by instructor.

- Short description of each question.
- How you solve each question.

For the late assignments up to one week, the following reduction of the given points will be deducted.

- After due date ~ 1 week: 30% deduction of given points
- After 1 week ~ 2 weeks: 60% deduction of given points
- After 2 weeks: no points will be given.

Assignments may only be made up if the absence was due to documented illness, approved university activity or family emergency. If you miss class or an assignment due to an approved university activity, illness or family emergency on the day an assignment is due, it is your responsibility to contact the instructor **before the start of class that day** in order to make alternative arrangements.

Attendance

This class assumes perfect attendance. In the event you need to miss a class, please contact the instructor before absence, and consult with classmates regarding material you may have missed. Absence without excuse to the instructor will have an effect on your grade.

Academic Standards

The University of Wisconsin – Stevens Point is an academic community of individuals committed to the pursuit of learning, the acquisition of knowledge, and the education of all who seek it. This course expects that all work turned in for a grade is your own, or that of your group. A description of your rights and responsibilities as a member of the UWSP community can be found at:

<http://www.uwsp.edu/dos/Pages/Information%20for%20Students.aspx>

Student Academic Standards and Disciplinary Procedures (UWS/UWSP Chapter 14) is available at

<http://www.uwsp.edu/dos/Documents/Community%20Rights%20and%20Responsibilities.pdf#page=8>

Academic Dishonesty Policy

Students may discuss assignments with each other and may seek help from the instructor. However, since assignment scores count as a part of the final grade, students must limit the amount of outside help they receive. Students must not copy any part of another person's work or break an assignment into a team project (unless directed to do so by the instructor). If there is ANY doubt in your mind about the amount of help given/received you should immediately consult with your instructor BEFORE submitting the assignment.

Any student who submits an assignment or exam which is in whole or in part the work of another person and any student (whether enrolled in the course or not) who so assists another student will be prosecuted under Chapter

UWSP 14 of the Rules of the Board of Regents of the University of Wisconsin System, Wisconsin Administrative Code. Depending upon the severity of the infraction, the consequences of such an act range from a verbal reprimand to an "F" in the course to expulsion from the University.

Emergency Preparedness

In the event of a medical emergency, call 911 or use red emergency phone located outside of the Public Science Hall Lab (B238). Offer assistance if trained and willing to do so. Guide emergency responders to victim. In the event of a tornado warning, proceed to the lowest level interior room without window exposure at SCIENCE A224. In the event of a fire alarm, evacuate the building in a calm manner. Meet near the grassy area near Lot X. Notify instructor or emergency command personnel of any missing individuals.

Active Shooter – Run/Escape, Hide, Fight. If trapped hide, lock doors, turn off lights, spread out and remain quiet. Follow instructions of emergency responders. See UW-Stevens Point Emergency Management Plan at www.uwsp.edu/rmgt for details on all emergency response at UW-Stevens Point.

Communication by email

I do a lot of communication by email. When you email me, please include "CIS367:" in the beginning of subject. It will help me differentiate your email for this course with other emails.

Course schedule

- See "CIS367_schedule.pdf".

