

CIS 779: Information Systems Security

Spring 2016

This course provides an introduction to information systems security. The course considers security from the high level down, and considers technical, administrative, and physical aspects of IT security in an organization. Specific topics covered in class include fraud, risk, information protection, business continuity, network security, auditing, and security planning and governance. The course material is taken mainly from the three professional certificates: Certified Information Systems Auditor (CISA), Certified Information Security Manager (CISM), and the Certified Information Systems Security Professional (CISSP).

In addition, students plan security from a software design perspective, by modifying a Requirements Document and appropriate UML design elements.

The course offers theoretical and practical components within the classroom and project assignments. Lectures provide an overview on each topic, while a HIPAA case study and workbook enable students to apply the lecture material in class.

Instructor: Susan Lincke, PhD CISA

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Web: www.cs.uwp.edu/Classes/Cis779

Office Hours: Tues, Thurs. 12-2 PM
Tues. 5-6 PM, or by appt.

Office Location: MOLN 255

Class Hours: Mon. 6:30-9:20

Class Location: MOLN D114

Text: *Security Planning: An Applied Approach*, Susan Lincke

Prerequisites: CS 242 Computer Science II or 2 majors courses in MIS.

Assignments: Refinement of the Health First Requirements Doc. to adhere to HIPAA.

Due Dates: Exam and project due dates are posted on the website.

Grading:

Security Req. Doc.: 25%

Quizzes: 15%

Class Labs: 10%

Two Exams: 25% each

Grading Scale: A= 90% B=80% C=70% D=60% F<60%

Plus grades are assigned for grades within 2% of the next higher grade.

Minus grades are assigned for grades within 2% of the next lower grade.

Academic Honesty: Academic dishonesty includes plagiarism from web sites, texts, or other students, on project assignments or exams. Showing other people your homework/tests also counts as cheating, except during a group project. Any indication of cheating will result in an immediate zero on the assignment or exam for all parties involved. In addition, the student's department will be notified.

Lateness: All assignments are due at the beginning of class on the due date. Assignments turned in late will automatically have one full grade deducted. No assignments will be accepted one week or later after the due date.

Course Outline:

1. Security Awareness & Fraud (Chapters 1 & 2)
2. HIPAA (Chapter 14, optional Chapter 3)
3. Business Continuity & Disaster Recovery (Chapter 5)
4. Information Security (Chapter 7)
5. Network Security (Chapter 8)
6. Risk (Chapter 4)
7. Midterm & Metrics (Chapter 12)
8. Secure UML (Chapter 15)
9. Secure Software (Chapter 15)
10. Incident Response (Chapter 11)
11. Audit (Chapter 13)
12. Physical & Personnel Security (Chapter 9, 10)
13. Security Governance (Chapter 6)

Class Labs: Many lecture topics will include a discussion or lab component, in addition to a lecture. Attendance is required so that students can participate in the lab or discussion component of the coursework. Students may miss one lab/discussion component with no impact on their grade. If a student must miss additional classes, the student can make up lost credit submitting the missed exercise within two weeks of the missed class.

Project Assignments: Homework assignments involve enhancing the Health First Requirements Document to include security features. Assignments are posted on the website.

Exams: This course is designed for students to develop sufficient skills to consider taking the CISA or CISM exam, with additional practice. Exam questions include CISA/CISM-like multiple choice questions, and may include essay or problem questions also.

Course Regulations

Exam Make-Ups: Prior notice must be given to me when an exam must be missed. No make-up exams will be granted unless satisfactory documentation is produced to show an extenuating circumstance.

Students with a Disability: Any student with a documented disability who needs academic adjustments or accommodations is requested to speak with me during the first two weeks of class. Please bring your letter of verification from the Disability Services Office (WLLC D175 at 595-2372). All discussions will remain confidential.

Accommodation for Religious Observances: UW-Parkside policy requires that reasonable accommodation for a student's religious beliefs. Please notify your instructor within the first two weeks of classes about any scheduled class date that conflicts with a religious observance.

Food in Class: Drinks with covers are allowed in class. Food that is not loud and does not smell is allowed in class. Thus, for the benefit of your hungry neighbors, grilled food and potato chips are not allowed.

Weapons: Weapons are prohibited in UW-Parkside buildings and all outdoor events. Anyone found in violation will be subject to immediate removal in addition to academic and/or legal sanctions.