

CS 498/CIS 698: Information Systems Security

Spring 2013

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. 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).

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

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Office Hours: Tues, Thurs. 5-6:30 PM;
Wed.. 1-3 PM, or by appt.

Office Phone: (262) 595-2129

Office Location: MOLN 255

Class Hours: Wed. 6-8:45

Class Location: MOLN 318

Text: *Management of Information Security*, Michael E Whitman, Herbert J Mattord

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

Assignments:

- Undergraduate: Refinement of a Requirements Document for a Doctor's Office to adhere to HIPAA.

Grading: Undergraduate

External Project: 40%
Class Labs 10%
Midterm: 25%
Final Exam: 25%

Graduate

External Project: 35%
Class Labs: 5%
Midterm: 25%
Final Exam: 25%
Project Leadership: 10%

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. Plagiarism is defined to be the copying of text, without specifying references, or without putting quoted

material in quotation marks. (This applies to figures as well.) 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 advisor/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.

Due Dates:

- Exam 1: Wednesday Oct 14
- Last day to drop: Friday Oct 23
- Last class: Wednesday Dec. 16
- Final Exam: Wednesday Dec 23, 5:45-7:45

Course Outline:

1. Fraud
2. HIPAA
3. Business Continuity & Disaster Recovery
4. Information Security
5. Network Security
6. Risk
7. Midterm
8. Audit
9. Physical & Personnel Security
10. Security Management
11. Secure Software
12. Secure UML
13. Application Controls ()
14. Incident Response
15. Final Exam

Exams:

This course is designed for students to develop sufficient skills to consider taking the CISA or CISM exam, with additional practice. Exam questions will look like CISA/CISM/CISSP multiple choice questions, and may be taken from a review manual.

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:

Students will enhance a Requirements Document for a Doctor's Office to add the features necessary to adhere to the HIPAA Privacy Rule and Security Rule.

Note: The Graduate course is becoming slightly different this year than the undergrad. This syllabus only really works for the undergrad program.