

Information Technology 481 – Information Security - Winter 2008

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Text:

- ❑ Secrets and Lies, Bruce Schneier, Wiley Publishing, ISBN 0-471-45380-3
- ❑ Various articles located on the IS 390 Blackboard site.

Course Goals:

This introduction to security systems will give students a solid foundation of understanding in different computer security concepts, functions and applications. The course maps to Comptia Security+ exam objectives which cover general security concepts, communication security, infrastructure security, basics of cryptography and operations/organizational security. Upon completion of this course, students will be prepared to take Comptia's vendor neutral Security+ exam. Security+ certification is globally recognized as equivalent to an entry-level security specialist. Security+ exam is accepted as one of the security certification exams by Microsoft toward its MCSA and MSCE certification.

Learning Objectives:

- ❑ The basic objective of this course is to provide an introduction to the field of information security.
- ❑ Following the course, the student should be able to associate other reading and conversation with material in the course and create relationships to what they have learned.
- ❑ At the end of the course the student should be able to:
 - Describe security policies and countermeasures
 - List the various certificates and credentials for security personnel
 - Describe the various network defenses and their applications

- Explain cryptography and explain how it is applied to security
- Describe the difference between identification and authentication and its application

Requirements:

- ❑ **Course Pre-test** – At the beginning of the semester you will be asked to take the TestOut Security + Exam. By taking the pre-test you automatically receive a total of 10% of your grade, regardless of your score.
- ❑ **TestOut Preparation** – Generally we will meet as a class twice a week for three hours. Prior to class you should complete the TestOut reading and complete the end of chapter tests. Based on the percentage completed, your score will be used for this part of your grade. TO preparation is worth 25% of your grade.
- ❑ **Class quizzes** – each assigned chapter and supplementary reading must be done before the class period assigned. For each class period, we will have a 10 point quiz. Questions for the quiz will come from the prior Test Out assignment, the Secrets and Lies reading and the reading discussed in the prior class. Class quizzes will be given each class and will be worth 25% of your grade.
- ❑ **Weekly Wiki** – each week you should research two topics from the textbook and TestOut materials that support these topics. Each post is worth 10 points. The weekly wiki is worth 10% of your course grade.
- ❑ **Final Exam** – Your best score on the Testout “Typical Exam” will be used for your final exam score. The final exam is worth 30% of your course grade.

Resources:

- ❑ Blackboard will be used for providing course information, course announcements, additional reading, submitting homework, and grade review.

Evaluation:

- ❑ Course Pretest, 10%
- ❑ TestOut Preparation, 25%
- ❑ Class Quiz (TestOut, S&L, Class Discussions), 25%
- ❑ Weekly Wiki posting from web research, 10%
- ❑ Final Exam (two parts (common exam/TestOut and exam from readings/discussions), 30%

A 94-100%	B+ 87-89	C+ 77-79	D+ 67-69	F 59 and below
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A- 90-93	B 84-86	C 74-76	D 64-66	
	B- 80-83	C- 70-73	D- 60-63	

Class Absences –It is very important that you are in class each class period. For excused absences (university sponsored events and illness, with a doctors note), I will provide a make-up work with a deadline. Unexcused absences (sleeping in, early flights for vacations and other activities) will result in a 0 for the assignments and/or attendance for that day.

Cheating – Using another person’s work, whether it’s a current student’s work, a previous student’s work or from the Internet, without attributing credit to them is cheating. It’s called cheating because it cheats you from the learning that can occur and it cheats the person whose work you are using from credit they deserve. Student caught cheating will be punished by receiving at least an “F” for the assignment and possibly an “F” for the course. Student’s who cheat but are not caught will be punished at a later date.

Class disruptions – Arriving late to class, use of cell phones, talking to other classmates, etc., disrupt the class. Penalties for class disruption will be discussed in class.

Special Needs - Brigham Young University-Hawaii is committed to providing a working and learning atmosphere, which reasonably accommodates qualified persons with disabilities. If you have any disability that may impair your ability to complete this course successfully, please contact the students with Special Need Coordinator, Leilani A'una at 293-3518. Reasonable academic accommodations are reviewed for all students who have qualified documented disabilities. If you need assistance or if you feel you have been unlawfully discriminated against on the basis of disability, you may seek resolution through established grievance policy and procedures. You should contact the Human Resource Services at 780-8875.

Preventing Sexual Harassment - Title IX of the education amendments of 1972 prohibits sex discrimination against any participant in an educational program or activity that receives federal funds, including Federal loans and grants. Title IX also covers student-to-student sexual harassment. If you encounter unlawful sexual harassment or gender-based discrimination, please contact the Human Resource Services at 780-8875 (24 hours).

Class Schedule:

Please see the class schedule within Blackboard for the most up-to-date schedule.