

CIS 147 Principles of Information Security

Spring Semester 2011

Course Description: Provides information systems students with a thorough examination of the field of information security and prepares them to make decisions about securing information in a business or personal environment.

Course Objectives:

- ⇒ Define information security and explain why it is important
- ⇒ Identify types of attacks common today and how to recover from an attack
- ⇒ List attacks that can be launched against networks and the steps necessary to secure networks
- ⇒ Define business continuity and how disaster recovery planning benefits and organization
- ⇒ Describe legal and public relations implications of security and privacy issues.

This course presents a basic introduction to practical computer (information) security for all users. Real-life experiences are used to show why computer security is necessary. Students, home users, and business professionals will learn essential elements for making and keeping their information secure. It begins with the concept of securing your desktop and extends to securing enterprise and wireless networks.

Instructor: Colette Schimetz

Office: Thatcher Hall 207

Office Hours: MWF 1:00 PM to 4:00 PM
TuTh 10:00AM to 12:00 PM

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Lecture/Lab Schedule: MWF 1:00 PM to 2:15PM
Thatcher Hall 214

Textbook(s): *Security Awareness 3rd Edition*. Mark Ciampa ISBN-10: 1-4354-5414-6 and *Security + LabSim*. TestOut Corporation ISBN: 978-1-935080-32-9

Course Requirements: Class participation and attendance are required. Students are required to complete all class activities. Quizzes and test may not be made up unless arrangements are made with the instructor prior to class time. Emergencies and excused absences will be handled on an individual basis.

Grading and Evaluation Criteria: Tests will comprise 60% of your grade. Tests and quizzes will be objective, i.e. multiple choices, true/false, and short answer. 20% of your grade will be based to daily work and 20% based on a research project/presentation you will create at the end of the semester.

The formula for grades is as follows:

A=90 and above

B= 89-80

C= 79-70

D= 69-60

F= 59 and below

Tentative Course Outline:

- ⇒ Challenges of Securing Information
- ⇒ What is Information Security?
- ⇒ Who Are the Attackers?
- ⇒ Attacks and Defense
- ⇒ Attacks and Defense of Desktop Computers
- ⇒ Internet Attacks and Defense
- ⇒ Attacks on Personal Security
- ⇒ Personal Security Defense
- ⇒ Wireless Attacks and Defense
- ⇒ Enterprise Security
- ⇒ Business Continuity
- ⇒ Types of Security Policies

Relationship to Campus Theme: At first, nature and technology may seem to be opposites, but people by nature, are curious. This curiosity and quest for knowledge has led to the development of all technology. In turn this technology can be used to care for the Earth and therefore, improve the quality of life for all people.

Classroom Policies: Class participation is required and this means that students will be working on assigned projects during class not browsing the internet or chatting or playing games. Anyone caught doing this may be asked to leave. Arriving late, leaving early, talking and texting are distracting to the instructor and other students. Texting and cell phone use during class is not permitted. If you receive a phone call that you must take, quietly leave the room to take the call and return when you are finished.

Academic Integrity:

Students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. (Student handbook p.19) Students will receive no credit for work that fails to meet standards of academic integrity. **The work you hand in must be your own. Handing in someone else's work can result in an F and/or removal from class.**

Disabilities and Special Needs: If you have a disability for which you need accommodation, contact me within the first week of the semester. Learning Center disability support services are available also: phone 701-228-5477 or toll-free 1-888-918-5623.