

# Information Security Management

## ITP 370 (3 Units)

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Spring 2015

### Objective

Upon completing this course, students will:

- Understand the fundamentals of managing information security systems and personnel
- Learn how security and management are interrelated
- Understand the laws and regulations surrounding information security
- Learn how to plan for disaster recovery
- Learn how to conduct security audits

### Concepts

This course is designed to teach the fundamentals of security management. The course is not technical in nature, but relies on the student's previous understanding of security systems. The course instead looks at security from a managerial perspective with regards to design, implementation, maintenance, and disaster recovery.

### Prerequisites

ITP 125 or Department Approval

**Instructor** Jennifer Kassar

**Contacting the Instructor** [jkassar@usc.edu](mailto:jkassar@usc.edu)

**Office Hours** Mondays 1:30PM-2PM and by appointment

**Lab Assistants** N/A

**Lecture/Lab** Monday, 2:00 – 5:00, GFS 108

### Required Textbooks

Readings distributed via Blackboard.

### Website

All course material will be on Blackboard (<http://blackboard.usc.edu>).

## Grading

The following percentage breakdown will be used in determining the grade for the course.

News (4 pts. each)	20 points
Homework/Labs	75 points
Class Participation	5 points
Exam 1	40 points
Exam 2	60 points
Final Project/Presentations	50 points
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Total:	250 points

## Grading Scale

The following shows the grading scale to be used to determine the final letter grade.

93% and above	A (185 points)
90% - 92%	A- (179-184 points)
87% - 89%	B+ (173-178 points)
83% - 86%	B (165-172 points)
80% - 82%	B- (159-164 points)
77% - 79%	C+
73% - 76%	C
70% - 72%	C-
67% - 69%	D+
64% - 66%	D
63% and below	F

## Policies

- No make-up exams will be offered nor will there be any changes made to the Final Exam schedule or assignment due dates (except for documented medical or family emergencies).
- It is your responsibility to submit your assignments on or before the due date. **It is not the responsibility of the lab assistant or the instructor.** Do **not** turn in anything to your lab assistant!
- Assignments are due on the date listed in the syllabus at the beginning of class unless otherwise changed by announcement in class or via e-mail. Any assignment turned in late will incur a 25% penalty for the first 24-hour period that it is late, an additional 50% off for the second 24-hour period that it is late, and will not be accepted after 48-hours. All assignments must be turned in either in person to the instructor or via Blackboard. Do not e-mail assignments.
- Grades will be posted on Blackboard and it is your responsibility to ensure that the grades online are accurate and to follow your progress in the class.

- You are expected to be in class, on time, and distraction free. While I usually won't take attendance, this class is small enough that I will know if you are present or if you miss class. As this class meets once a week and as it is lecture and lab any student who misses more than two classes is in danger of failing the course. Please see me immediately if you have missed that number of class meetings.

## News Assignment

To promote class discussion, each student will be required to submit an article for class discussion starting February 2<sup>nd</sup>. Articles shall be posted with a hyperlink to the article and a one paragraph summary to the class blog at <http://uscinfosec.blogspot.com>. If you have not used this blog before, please submit your Google user name (which is not your USC e-mail address) to the instructor. Please take care not to duplicate stories that have been submitted that week.

News stories should directly pertain to topics covered either the prior week or the upcoming week in class.

- Post a link on the blog by 2PM before class.
- Please submit a story that is no more than two weeks old.
- If the story is behind a pay-wall or subscription-wall or requires a login, please submit a PDF copy along with the link.
- Be prepared to give a short three-minute summary of the article and any surrounding background details to start the discussion.

## Incomplete and Missing Grades

Excerpts for this section have been taken from the University Grading Handbook, located at <http://www.usc.edu/dept/ARR/grades/gradinghandbook/index.html>. Please see the link for more details on this and any other grading concerns.

A grade of Missing Grade (MG) “should only be assigned in unique or unusual situations... for those cases in which a student does not complete work for the course before the semester ends. All missing grades must be resolved by the instructor through the Correction of Grade Process. One calendar year is allowed to resolve a MG. If an MG is not resolved [within] one year the grade is changed to [Unofficial Withdrawal] UW and will be calculated into the grade point average a zero grade points.

A grade of Incomplete (IN) “is assigned when work is no completed because of documented illness or other ‘emergency’ **occurring after the twelfth week** of the semester (or 12<sup>th</sup> week equivalency for any course scheduled for less than 15 weeks).”

## **Academic Integrity**

USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one's own academic work from misuse by others as well as to avoid using another's work as one's own. All students are expected to understand and abide by these principles. *Scampus*, the Student Guidebook, contains the Student Conduct Code in Section 11.00, while the recommended sanctions are located in Appendix A: <http://www.usc.edu/dept/publications/SCAMPUS/gov/>. Students will be referred to the Office of Student Judicial Affairs and Community Standards for further review, should there be any suspicion of academic dishonesty. The Review process can be found at: <http://www.usc.edu/student-affairs/SJACS/>.

## **Students with Disabilities**

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to your course instructor (or TA) as early in the semester as possible. DSP is located in STU 301 and is open from 8:30am to 5:00pm, Monday through Friday. Website and contact information for DSP [http://sait.usc.edu/academicsupport/centerprograms/dsp/home\\_index.html](http://sait.usc.edu/academicsupport/centerprograms/dsp/home_index.html) (213) 740-0776 (Phone), (213) 740-6948 (TDD only), (213) 740-8216 (FAX) [ability@usc.edu](mailto:ability@usc.edu)

## **Emergency Preparedness/Course Continuity in a Crisis**

In case of emergency, when travel to campus is difficult, if not impossible, USC executive leadership will announce a digital way for instructors to teach students in their residence halls or homes using a combination of the Blackboard LMS (Learning Management System), teleconferencing, and other technologies. Instructors should be prepared to assign students a "Plan B" project that can be completed 'at a distance.' For additional information about maintaining your classes in an emergency, please access: <http://cst.usc.edu/services/emergencyprep.html>

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### Course Outline

Note: Schedule subject to change

#### Week 1 – Intro & Info Sec Principles for Success

#### Week 2 – MLK Holiday; No Class

#### Week 3 – Risk Assessment

- Lab: Web Server Security
- Homework

#### Week 4 – Security Architecture & Design

- News: Group 1
- Lab: Course Asset Identification
- Homework

#### Week 5 – Protection Mechanisms & Monitoring

- News: Group 2
- Lab: Vulnerability Assessment
- Homework

#### Week 6 – President’s Day Holiday; No Class

#### Week 7 – Policies & Procedures

- News: Group 1
- Lab: Encryption Design Case
- Homework

#### Week 8 – Contingency Planning

- News: Group 2
- Exam Review

#### Week 9 – Exam 1, Project Management, & Final Projects

- News: Group 1
- Final Projects Assigned

#### Week 10 – Security Programs, Personnel, & Training

- News: Group 2

**Week 11 – Guest Lecture (Attendance Mandatory)**

- News: Group 1

**Week 12 – Legal & Ethics**

- News: Group 2

**Week 13 – Investigation & Remediation**

- News: Group 1

**Week 14 – Securing the Future & Exam Review**

- News: Group 2
- Exam Review

**Week 15 – Exam 2**

**Finals Week – Final Project Presentations**