

ISM 6328: INFORMATION SECURITY MANAGEMENT
FALL 2011 – Boca Raton Campus

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Lecture Location: BU 307
Lecture Time: Thursdays 07:10PM 10:00PM
Course Web Site: <http://blackboard.fau.edu>
Office Hours: By Appointment
I am on campus everyday

Course Objectives:

This three credit graduate level course introduces participants to the various technical and administrative aspects of information security. Emphasis is on the management of information security efforts as well as progression in adopting this field within IT organization.

This course also discusses various administrative, technical, governance, regularity and policy aspects of Information Security Management. We will examine security management development, risk assessment and mitigation, security management models, integration of project management techniques, and laws governing system, application and network security. We will also explore theoretical concepts of information security. A few practical and hands-on approaches will be discussed to better understand and to devise strategies related to security policy development and enforcement. This course will explore high-level network security implementation as well as techniques and strategies to address security and IT governance related issues.

While technical side of IS security is not neglected, as a number of technical aspects and security technologies are specifically considered, the emphasis of the course is the management of information systems and in particular information security. It does, therefore, seek to highlight the implications of the underlying technologies, rather than the actual mechanics of those technologies.

LEARNING GOALS/OUTCOMES:

This course is graduate level and the following learning outcomes are expected of students.

- 1- Ability to conduct research and to utilize analytical skills in articulating information technology investment strategies that align with business strategies. Understanding elements of organizational function processes, work practices and human resource capital as integrated components to address technical, logistical and business challenges and to provide paradigm shift in IT service delivery and to explore alternative opportunities to contain cost without impacting organizational mission.
- 2- Students will demonstrate effective oral and writing communication skills necessary to be effective and to compete at global business environment.
- 3- Students will demonstrate an ability to understand sourcing issues involving global IT providers and terms. Students will apply this knowledge for selecting and evaluating information technology vendors, partners and service providers to augment in-house skills.

- 4- Students will demonstrate understanding various aspect of information security management including planning, process, policy, procedure and security model as well as hardware and software technologies to safeguard organizational assets.
- 5- Students will develop the necessary skills to examine security management progression within an organization including training, policy development, governance, organizational model, risk assessment and mitigation, security management models as well as integration of project management techniques.

WEB-ASSISTED COURSE

This course will use Blackboard course management tool, and changes will be announced on the course web site. **Several lectures will be delivered via Blackboard.**

PREREQUISITE

Completion of undergraduate degree in a related field.

IMPORTANT INFORMATION:

REQUIRED MATERIALS

1. **TEXTBOOK.** Whitman & Mattord, *Principles of Information Security*, Course Technology, Fourth Edition. (Required)
2. **STORAGE.** Each individual is required to have a temporal storage device (i.e., flash USB drive, cloud base storage, etc...). Due to handling of electronic files that have great potential to compromise systems, it is recommended that all files and activities be stored in these storage devices.

OTHER MATERIALS

1. **Exams.** There will be two (2) cumulative examinations – a midterm and a final exam. The content will come from the text and other material presented in lecture sessions. Note that material presented in class will supplement the assigned reading. Therefore, class attendance, participation and good note taking are essential tactics for success.
2. **Projects:** There will be projects given during the semester. These are basically research papers, which combines technical knowledge with managerial skills. There will be one project require class presentation. You will be actually making contribution to the state of practice in the information technology security arena, and materials you are asked to present will be incorporated into the final exam. Details regarding the topics of the project and due dates will be posted on the course web site and will be discussed in class.
3. **Security management Practice Assignments/Quizzes.** There will be four to six security management practice assignments and or quizzes given during the semester. The main purpose of these assignments is to expose students to at various aspects of current technologies used in network security, governance and IT and security model management. Quizzes will be taken during the class session and will be based on materials presented, PowerPoint files and your text book.

4. Grading for this class will be from 1000 possible points.

Expectation:

- Attendance
- Being on-time
- Participation
- Assignments
- Mutual Respect for your classmates
- Effective Communication
- Conducting research and citing sources appropriately on projects
- Proper attire

Grade Breakdown:

Mid-Term	25%
Final	25%
Project and presentation:	10%
Other Assignments and Quizzes	40%

The grading system will be based on 1000 points.

Final Grade Assignment %:

93.00 → 100	A
89.00 → 92.99	A-
87.00 → 88.99	B+
83.00 → 86.99	B

*** Graduate Level courses below B grade may have to be repeated ***

79.00 → 82.99	B-
77.00 → 78.99	C+
73.00 → 76.99	C
69.00 → 72.99	C-
67.00 → 68.99	D+
60.00 → 66.99	D
00.00 → 59.99	F

SUBMISSION GUIDELINES

1. **Due Date and late completion of an assignment.** All assignments due by 11:59 PM on the due date indicated in the course schedule. **For each day** that the assignment is late, **five points will be deducted** from the assignment's score. No extra assignments are permitted for additional credit in this course unless assigned by the instructor to the entire class.
2. **Email Submission.** All assignments are to be submitted by email to the instructor's email address. Be sure you receive an acknowledgement from the instructor for each assignment. Every assignment the instructor receives will have an acknowledgement sent. If you did not get the acknowledgment, the instructor did not get the assignment. All email submissions must be received prior to the stated deadline and must be submitted using a FAU e-mail address.

3. **Format of Submission.** The following format must be used when submitting assignments via email. In the “Subject” line of your email must indicate the followings: ISM6328 YourName Name_Of_Deliverable Example: *ISM6328-John Doe Project Proposal*
4. All assignments are REQUIRED to adopt APA format. It is recommended that you review APA style manual 6th edition.

Note: Remember to **put the course name in the subject field of every e-mail message** that you send me. This will expedite responding to your message. E-mail messages that are missing this information are likely to be automatically redirected to a folder the instructor will seldom check (perhaps Spam folder!!!!).

CLASS POLICIES

1. **Honor Code.** The FAU Honor Code governs all student activities throughout the course. Cheating, plagiarism, copying, and unauthorized collaboration are unacceptable and are subject to disciplinary actions, including a grade “F” in the course and a letter of fact in the student’s record, according to the rules of the University and College of Business. Students agree that by taking this course all required papers may be subject to submission for textual similarity review to Safe Assign for the detection of plagiarism. All submitted papers will be included as source documents in the Safe Assign reference database solely for the purpose of detecting plagiarism of such papers.
 1. FAU Honor Codes is located at: Code of Academic Integrity:
http://www.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf
2. **ADA.** Students may seek accommodations in accordance with the Americans with Disabilities Act of 1990. Students with disabilities needing academic accommodations should review Florida Atlantic University's ADA Policy and work with the Florida Atlantic University's Office for Students with Disabilities.
 1. The most recent disability accommodation policy is located at – ADA policy:
http://www.fau.edu/eop/ada/ada_policy.php
3. **E-mail.** Students are required to check their email throughout the course. By University Policy, every email communication related to the course is supposed to use FAU email account. If you use a non-FAU e-mail address as your primary e-mail address, arrange for your FAU e-mail to be forwarded to your non-FAU account.
4. **Responsibilities.** Each student is responsible for keeping up with the class schedule, checking FAU email, and checking the course web site.
5. **Electronic Devices.** In order to minimize the level of distraction, all beepers and cellular phones must be on quiet mode during class meeting times. Students who wish to use a laptop computer/PDA for note taking need prior approval of the instructor since key clicks and other noises can distract other students.
6. **Exam and Assignment Make-up Policy.** There are no make-up exams and assignments for this course. If there are emergencies or other non-academic circumstances beyond your control that preclude you from taking a scheduled exam or from submitting a due assignment, please let the instructor know at the earliest possible opportunity before the exam or assignment so that

alternate arrangements can be determined.

7. **Incompletes.** There are no incompletes given for this course, except in the case of extraordinary circumstances (e.g., excessive absences due to severe illness) and the instructor determines that an incomplete is most appropriate.
8. **Absence.** 3 absences may result in a failing grade or may severely impact your grade.
9. **Religious Accommodation.** Link to FAU Religious Accommodation Policy is below: <http://www.fau.edu/academic/registrar/catalog/academics.php> (Listed under the “Policies for all students” section)

IMPORTANT DATES AND OTHER INFORMATION:

Other Information:

You should check the Blackboard site at least twice a week to find more information about homework, projects, and other related issues. Email is the preferred way to communicate with me for help or any other issues you would like to discuss with me.

Schedule of Classes:

There will be two online lectures or research lectures.

Other schedules will be specifically provided each week in advanced based on progress made after each lecture

Dates to Remember (in no specific order):

Labor Day

Mid-term Date

Veterans Day

Assignments due Date

LAST DAY TO DROP without fees

Last Day to Drop with letter “W”

Thanksgiving Holiday

Presentation day

Final Exam Date

Semester End

Graduation Date

Academic Calendar:

<http://www.fau.edu/registrar/pdf/Docs/acadcal1112.pdf>

Class Schedule and Reading Assignments:

Lecture Fall 2011 Aug 20 – Dec 7	Topics	Chapter Readings	Exams Additional Information
(8/25)	Introduction to Information Security	Chapter 1	Visit Blackboard
(9/1)	The Need for Security – Other topics	Chapter 2	
(9/8)	Legal, Ethical, and Professional Issues in Information Security	Chapter 3	QUIZ I
(9/15)	Risk Management	Chapter 4	Short Paper will be Assigned
(9/22)	Planning for Security	Chapter 5	
(9/29)	Security Technology: Firewalls, VPNs, and Wireless	Chapter 6	QUIZ II
(10/6)	Special Topics in Security and IT Governance		Project will be assigned
(10/13)	<i>Review – Project will be discussed and additional information will be posted in Blackboard related to final project and class presentation.</i>	LAST TO DROP COURSE with “W” IS 10/14	Mid-term Exam
(10/20)	Security Technology: Intrusion Detection and Prevention Systems and Other Security Tools	Chapter 7	Short Paper will be assigned
(10/27)	Cryptography Physical Security and Other IT related topics	Chapter 8 Chapter 9	
(11/3)	Implementing Information Security Security and Personnel	Chapter 10	QUIZ III
(11/10)	Special topics in Information Security Management Information Security Maintenance and eDiscovery	Chapter 11 Chapter 12	
(11/17)	Class Presentation – Protocol will be discussed on 10/6	Sessions will be recorded	
(11/24)	Thanksgiving No class		
(12/1)	Review and Final Exam		Final Exam

Note: We will be missing a lecture due to the Thanksgiving Holiday