

Kingdom of Saudi Arabia
Ministry of Higher Education
Al-Imam Muhammad Ibn Saud Islamic University
College of Computer and Information Sciences



Information system security

IS 433

Dr. Taher Alzahrani,

About This Course

[Pre- Requisite : CS 330- (Computer Networks)]

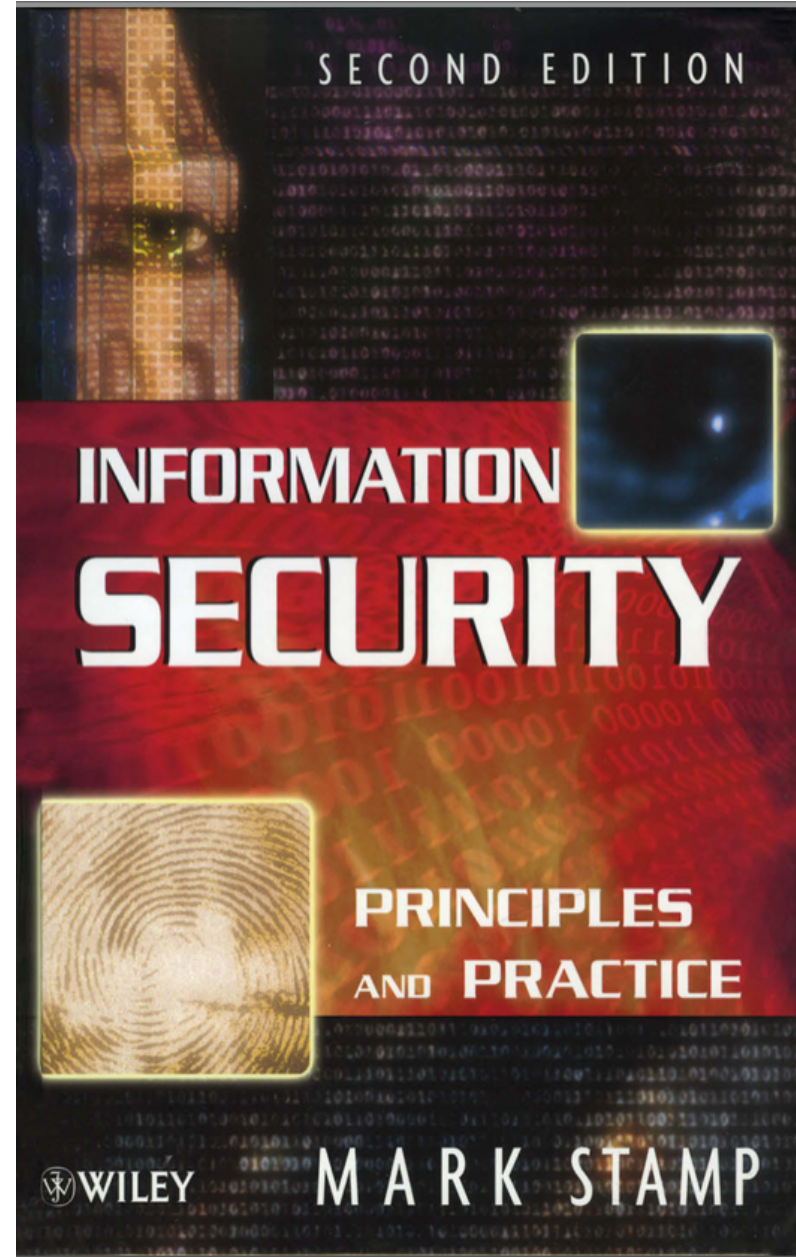
[No. of Credit Hours: 3]

[No. of Lecture Hours: 3]

[Scope] Explain how the course will be delivered. Is it lecture, discussion, activity, or lab-based. How much time is devoted to each component and are there different meeting places students should be aware of (such as labs or activity rooms)?

Required Textbook

- Information Security Principles and Practice, 2nd edition, Mark Stamp, Wiley Publications, 2011, ISBN 978-0470626399.



Topics Covered in This Course

Week	Topic
1 & 2	Introduction to Information Security
3	Basic Cryptography
3 & 4	Symmetric Key Cryptosystems
5 & 6	Public Key Cryptosystems
7	Access Control-Authentication
8	Access Control-Authorization
9	Authentication Protocols
10 & 11	Security Protocols
12	Software Flaws and Malware
13	Information Security Ethics & Laws
14	Project Discussion

Other Reading Material

- Understanding Cryptography
Written by: Christof Paar; Jan Pelzl
ISBN: 978-3-642-04100-6
Publisher: Springer
- Computer Security
Written by: Dieter Gollmann
ISBN: 978-1-119-95877-2
Publisher: John Wiley&Sons, Incorporated
- Ethics for the Information Age, 5/E (Chapter 7)
Written by: Mike Quinn
ISBN: 0132855534
Publisher: Addison-Wesley

Any other materials will be published on BB.

Coursework Submission

- All coursework must be submitted via **Blackboard** which serves as a record of the date/time of submission. If you are required to also submit a hard copy of the coursework, use the submission deadline that is posted on Blackboard. Both submissions must be identical.

Assessment Schedule

Important dates and submissions			
Week	Date	Assessment	Notes
5	14/02/2021	Assignment 1	
5	16/02/2021	Quiz1	
8	07/03/2021	Midterm	TBA
10	05/04/2021	Quiz 2	2 rd class
11	04/04/2021	Project Submission	
12	17/04/2021	Assignment 2	
13+14	11/04/2021	Project EXPO	TBA
16	-----	Final	Check the college for exact date and time

Projects and assignments

Assignment (10%):

It focus on practicing and implementing the knowledge given in the lectures.
Assignments details will be posted on BB later.

Course Project (20%):

- This is a group-based project (of 2 to 3 members).
- The project covers the core issues discussed through the course
 - Students must follow the following steps to finish the project:
 - Brainstorm to come up with idea.
 - Document and elaborate .
 - Present and defend the developed project.

Announcements

- All announcements related to the course will be made through Blackboard “<https://lms.imamu.edu.sa>” for the whole duration of the course. On Blackboard, you will have access to online lessons, course material, and other resources that will help you succeed in this course. All students are requested to access and check the website regularly to make sure that they get up to date information of any changes as well as to provide any contributions to the whole class using discussion boards.

Attendance Policy

- Students are expected to attend all class lectures on regular basis. as listed on the course calendar.
- **Punctuality**: Students are expected to attend classes on time. If your are less than **10 minutes** late, you will be marked as late (**3 late = 1 absence**). If you are more than 10 minutes late you are automatically considered absent for that class.
- Students who are absent **20%** percent of the lectures (e.g., **9 lectures** of a 3 credit hours course) will given a **denial grade (Z)**. No exceptions or excuses.

Make-up Policy

- **Assignments:** All assignments are due on the date/time stipulated. There are **no exceptions**. Do not wait till the last minute to submit. Be sure to pay close attention to deadlines. There will be no make up assignments.
- Missed or late quizzes **cannot be made up under any circumstances**.
- If you miss an exam there will be **no make-up exam** unless there is an extenuating medical excuse after approval from students affairs.
- **Missed Classes:** The student is responsible for obtaining material distributed on class days when he/she was absent. This can be done through contacting a classmate who was present or by contacting the instructor during his office hours or other times.

Academic Integrity

- **Cheating and Plagiarism** are NOT tolerated and will result in a **F** grade in this class. Be ware that Blackboard uses plagiarism check tool.
- **Cheating** is defined as obtaining or attempting to obtain, or aiding another to obtain credit for work, or any improvement in evaluation of performance, by any dishonest or deceptive means.
- **Plagiarism** is defined as the act of using the ideas or work of another person or persons as if they were one's own without giving proper credit to the source.

The Course objective

This course aims to provide students with an academic overview of information security covering its main domains. The course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features.

The Course marks

Schedule of Assessment Tasks for Students During the Semester

	Assessment task (e.g. essay, test, group project, examination, speech, oral presentation, etc.)	Week Due	Proportion of Total Assessment
1	Quizzes	4, 10	10%
2	Midterm Exam	8	20%
3	Assignments	5, 11	10%
4	Group Project	12	20%
5	Final Exam	16	40%

How to Contact Me

Contact info	Dr. Taher Alzahrani
Office Number:	2077
Office Hours:	<p>Times & Days</p> <p>In Case of online studying: Monday: 12:00 P.M. – 12:30 P.M. Tuesday: 11:30 A.M – 12:00 P.M</p> <p>In case of face to face studying: Tuesday: 12:00 P.M – 12:30 P.M Wednesday: 12:00 P.M – 12:30 P.M</p>
E-mail:	talzahrani@imamu.edu.sa
Office Telephone:	TBA

Class Rules:

- No mobile phones are to be used in the class.
- Show respect for your tutor and your classmates.
- **No recording is allowed.**
- Submit on time, soft copy through blackboard –hard copy during the lecture
- Your work will be checked for plagiarism – if detected your work will be marked as **zero**
- Please be on time for the class – no late show up please!!
- Please consider the following issues before sending any email:
 - The email's subject should contain your name – IS433- hint about the subject.
 - Write your email in a formal way.
 - Use your university official email account; unless you don't have one yet