



Department of Management Information Systems (MIS)

Syllabus for

Information System Analysis

Summer 2015

MIS 310

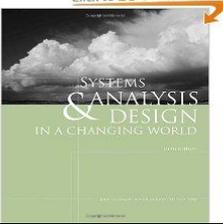
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Office Hours: S-W 10-11

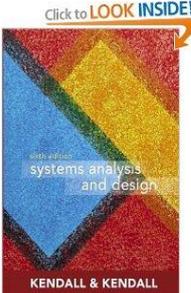
Prerequisite: MIS 306 & MIS 345 Pre/Co Requisite

Course Description:

Systems Analysis and Design is the art of problem solving. Systems analysis is the study of a current business system and its problems, the determination and definition of business needs and information requirements, and the evaluation of alternative solutions. Techniques and philosophies of systems analysis are addressed in this course. Included are traditional versus structured design methods, computer-based tools for systems analysis, workbenches, design and analysis of database systems, maintenance of existing information systems, human/ machine interfaces, and security and control.

1. TEXTBOOK

	<p>Systems Analysis and Design in a Changing World, <i>4th edition</i>. By J. Satzinger, R. Jackson and S. Burd. Published by Thomson Course Technology, 2007.</p>
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	<p>Systems Analysis and Design (6th Edition) [Hardcover]</p> <p>Kenneth E. Kendall (Author), Julie E. Kendall (Author)</p> <p>B0011GJX3K</p>
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2. LEARNING OBJECTIVES

Upon successful completion of this course, students should be capable of:

- Explain the key role of a systems analyst in business.
- Analyze an existing information system (whether manual or automated)
- Explain the purpose and various phases of the traditional system development life cycle (SDLC).
- Describe the two overall approaches used to develop information systems: the traditional approach and the object-oriented approach.
- Explain the elements of project management and the responsibilities of a project manager.
- Describe how the scope of the new system is determined.
- Develop a cost/benefit analysis and assess the feasibility of a proposed project.
- Explain the difference between functional and nonfunctional system requirements.
- Build Use Cases.
- Read, interpret, and create a data model (entity-relationship and class diagrams).
- Build a process model (Data Flow Diagram and similar UML models).
- Develop Sequence Diagram.
- Produce a Systems Proposal report.
- Utilize observation, questionnaires and interview schedules to discover system requirements
- Generate alternative solutions to an information systems problem and choose among

3. INSTRUCTIONAL METHODS

- This course is primarily a lecture course. Students are expected to work on computer programs (office applications) and projects in class and on their own time.
- Quizzes are closed book.
- Answers to assignments and projects should be submitted using hard and/or electronic copies.
- Students can review course materials which are available on GUST e-learning portal in and out of class: <http://portal.gust.edu.kw/default.aspx>

4. ASSESSMENT

4.1 Case Study/Article Reviews:

Students are required to select a case study from the chapters of the textbook, or an article about information systems. A power point presentation is needed to answer the questions of the case study or present the topic and ideas of the article. A copy of the power point presentation should be uploaded to MyGUST. Students can work in a group of two in this assignment.

4.2 Term Project:

The project is mainly to solve and analyze a real known Management Information System, preferred from the industry and document in details your analysis. Before you analyze the system, you need to identify the scope of the system, ensure that the project is feasible, and develop a schedule, resource plan, and budget for the remainder of the project. In addition, you need to document and present in detail the business needs and the processing requirements of the system.

The project can be done in a group of 3-4. A detail description of each phase of the project will be given in writing after we finish chapter II. Students are expected to document and present their project on each phase of the project.

4.3 Quizzes:

In class quizzes will be given as shown in the 'class meeting agenda' and in the 'quizzes and exam schedule'. Quizzes will be essay type, multiple choice and true/false questions.

4.4 In-Class Exercise:

Students will conduct in-class exercises about topics and themes related to information system analysis.

4.4 Final Exam:

Final exam is given after end of all class meetings. It will be a closed book exam that covers all the chapters discussed in class. It will consist of essay questions, of multiple choice questions, true and false, and other types of applicable questions. The final exam represents 30% of the total grade of the course.

Grading Scheme

Case Study	5%
Homework Assignment	5%
Quizzes	10%
Project	10%
Exam I	20%
Exam II	20%
Final Exam	30%
Total	100%

Class Meeting Agenda

Tentative Schedule:

The major topics covered are as follows:

<i>Week</i>	<i>Chapters</i>	<i>Topics</i>	<i>Remarks</i>
1-2	1	Syllabus, Concepts, Background and Terminology. The World of the Information Systems Analyst	
3-4	2	Approaches to System Development	Quiz I cover Chapter 1 and 2
5-6	3	The Analysts as a Project Manager 3	Exam I, Thursday October 13 cover chapter 1, 2, and 3
7-8	4	Beginning the Analysis	
9-11	5	Modeling System Requirements	Quiz 2 covers chapter 4 and 5
11-12	6	The Traditional Approach to System Requirements	Exam II, Thursday November 15, covers chapter 4, 5, and 6
13-14	7	The Object-Oriented Approach to Requirements	Quiz 3 cover chapter 7
15	8	Evaluating Alternatives for Requirements, Environment and Implementation	

Quizzes and Final Exam Schedule

Exam	Timing & Content covered
Quiz (1)	After completion of chapters 1 and 2
Exam I	After completion of Chapter 1, 2, and 3
Quiz (2)	After completion of chapters 4
Exam II	After completion of chapter 4, 5, and 6
Quiz (3)	After completion of chapters 7
FINAL EXAM	Final exam will cover all 8 chapters

Policies:

Electronic Devices

Cell phones are restricted during class. Cell phones must be turned off during the lecture.

Rescheduling Tests

Tests cannot be rescheduled due to testing in other classes. If a test is missed due to extenuating circumstances then you must notify me as soon as possible. The circumstances must be documented by you and must be excusable in order to reschedule a test.

Late Assignments

No assignments will be accepted that are more than seven days late. Assignments that are less than 7 days late will be accepted with certain penalty.

Cheating

Note: We expect the academic honesty in all students' work. Cheating will be penalized according to university policy. Cheating will include: plagiarism, copying from others or in any other way presenting other's work claiming it is yours

You are encouraged to discuss problems and programming assignments with each other. Helping others learn is often the most powerful way of mastering material yourself. However, taking somebody else's solution with or without their knowledge or consent is cheating and will be punished. Do not leave copies of the programming assignments in the trash can in a public place -- throw them away at home or some other private place. Also do not leave your directories unprotected. There are harsh penalties for those found cheating.

Attendance Policy

Attending the lectures is very important. The contents of this programming course are chained and it is your responsibility to keep track of all the lectures. If you miss a class, you are responsible for material covered during the class you missed, this includes any assignments made.

GUST's class attendance regulations will be followed:

Fail to attend 3 hours => Warning I

Fail to attend 6 hours => Warning II

Fail to attend 9 hours => FA

***Important Note: No medical or other excuses can erase an absence and therefore no notes will be issued by any office on campus.**

Mobile Phones Policy

All mobile phones must be turned off during all class sessions. During quizzes and exams, no mobile phones are allowed inside the classroom.

Make-Up Policy for exams and other course work

If a student misses an in class exam, quiz, or any other course work due to an excused and acceptable absence by the instructor, a percentage given to the class exam, quiz or course work in will be automatically added to the final exam.