

## BA in Management Program Fall 2020 OPIM 302 – Management Information Systems

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**Office Hours:** by appointment

### Lecture Times & Location:

Type	Time	Days	Where
Lecture	14:40 – 16:30	Thursday	Online Meeting
Lecture	12:40 – 13:30	Friday	Online Meeting
Recitation	13:40 – 14:30	Friday	Online Meeting

**Course Zoom Link:** <https://sabanciuniv.zoom.us/j/7839352187>

### Course Objective:

Information is a critical ingredient for the operation and management of any organization, and Information Systems play a vital and increasingly strategic role in the production, management, creative marketing, and delivery of products and services. Advances in technology have resulted in the development of systems that are radically transforming the nature of managerial work, the structure of organizations, and the way firms operate, relate to other firms, and compete in the marketplace. Thus, understanding the implications of modern information technologies on the management process and how it can be used to achieve competitive advantage, efficient operations, and effective decision making, is an important aspect of any modern manager's job.

This course covers introduction to information systems concepts including an overview of the strategic importance of an information system, the types of information systems used by businesses; systems analysis and design methodologies, techniques and technologies including database management systems used during the development of information systems for business including electronic business models and enterprise systems.

### Learning Outcomes:

The overall course objective is to provide the concepts and skills you need to analyze and design information systems. Upon successful completion of the course, you are expected to be able to:

- Analyze a business need for information and to develop an appropriate strategy to solve the problem and provide the required information service.

- Describe the major alternative methodologies used in developing information systems and the considerations involved in choosing which methodology to use.
- Construct and interpret a variety of system description documents, including physical and logical data flow diagrams, entity-relationship diagrams, some UML diagrams such as state-transition, activity and use case diagrams.
- Apply database management technologies for developing information system for business including E-business models and enterprise systems.

### **Course Material:**

1. Modern Database Management, 12th Edition, by J. A. Hoffer, V. Ramesh and H. Topi, 2012, Pearson Prentice Hall, available at HOMER.
2. Essentials of Systems Analysis and Design, 3rd Edition, by J. S. Valacich, J. F. George, J. A. Hoffer, 2006, Pearson Prentice Hall.

First book is required as textbook and second one is recommended book. Copies of both books are also available at the Information Center in reserve section.

### **Homer Bookstore sales link:**

<https://www.homerbooks.com/urun/modern-database-management-global-edition>

### **Course Web:**

All course related materials and announcements will be available at SUCourse+ website.

### **Instructional Design:**

The course will be taught using a blend of lectures, a sample database implementation by using MS Access and an ERP Tutorial organized by guest speakers. The full PowerPoint slides prepared for each topic will be available to the students at the OPIM 302 SUCourse site after each topic is completely covered in the class. These slides form a basis for presentation of the materials in that session.

Lectures are made interactive by in-class exercises that the students carryout individually. These assignments can be short quantitative problems or conceptual questions which enhance the learning process by active participation. In order to gain hands-on experience with the associated topics, there will be ERP tutorial organized by a professional firm. You will have opportunity to use their ERP application via remote access, this is basically simulations of real-world situations and put the students in a managerial decision making position.

### **Software Used:**

MS Access and Visio will be used in this course. You may download and install them from <https://mysu.sabanciuniv.edu/it/en/microsoft-software/azure-dev>

### Grading & Requirements:

1) ERP Assignment	TBA	Extra credit
2) Mini Projects	TBA	
Group Projects		30%
Individual Projects		40%
3) Final Exam	During Final Exam Period	30 %

#### ERP Assignment:

An ERP software company will give a tutorial about their ERP systems. You will have an opportunity to use their application. There will be case questions for the ERP assignment.

#### Exams:

There will be one final exam. The exams will consist of multiple choice, short answer, and diagramming and short problems. You cannot make-up for missed exam unless you have proof that you had a legal or medical emergency. The make-up exam will be held right after final exam weeks. It will be comprehensive and much more difficult than regular exams.

#### Mini Projects:

There will be seven mini projects. You suppose to work on projects with a group for the three of the mini projects. The maximum group size could be 5 students. The other four mini projects will be an individual assignments. In the projects you will design an information system for a specific usage and implement it in Microsoft Access. Details on the project will be discussed during the third week of class. Group dynamics are the responsibility of the members of the group. After assigning group project grades, every individual in the group will get the same grade. If you don't like the group performance, you could change your group configuration for the next mini projects.

### Academic Honesty:

Learning is enhanced through cooperation and as such you are encouraged to work in groups, ask for and give help freely in all appropriate settings. At the same time, as a matter of personal integrity, you should only represent your own work as yours. Any work that is submitted to be evaluated in this class should be an original piece of writing, presenting your ideas in your own words. Everything you borrow from books, articles, or web sites (including those in the syllabus) should be properly cited. Although you are encouraged to discuss your ideas with others (including your friends in the class), it is important that you do not share your writing (slides, MS Access files, MS Visio files reports, etc.) with anyone. Using ideas, text and other intellectual property developed by someone else while claiming it is your original work is *plagiarism*. Copying from others or providing answers or information, written or oral, to others is *cheating*. Unauthorized help from another person or having someone else write one's paper or assignment is *collusion*. Cheating, plagiarism and collusion are serious offenses that could result in an F grade and disciplinary action. Please pay utmost attention to avoid such accusations. I

will follow the university guidelines on academic dishonesty. It is your responsibility to read the university guidelines on this matter.

### **Classroom policies and conduct**

Sabancı BA in Management Undergraduate Program values participatory learning. Establishing the necessary social order for a participatory learning environment requires that we all:

- Come prepared to make helpful comments and ask questions that facilitate your own understanding and that of your classmates. This requires that you complete the assigned readings for each session before class starts.
- Make every effort to be at class on time.
- Listen to the person who has the floor. During class hours avoid unnecessary conversations.
- Except emergency and health related excuses do not leave and reenter the class during each fifty minute long lecture.
- Except for health related incoming call expectations cellular phones should be turned off.
- You should not read anything in print or on the computer other than the class material currently being discussed.

### **Tentative Schedule:**

<b>Week</b>	<b>Dates</b>	<b>Thursday</b>	<b>Friday</b>
1	October 8 – 9	Introduction	Introduction - Chapter 1
2	October 15 – 16	Process Modeling	Process Modeling
3	October 22 – 23	Process Modeling	Data Flow Diagrams
4	October 29 – 30	NO LECTURE	NO LECTURE
5	November 5 – 6	Data Flow Diagrams	Data Flow Diagrams
6	November 12 – 13	ERP Tutorial	ERP Tutorial
7	November 19 – 20	ERP Tutorial	Chapter 2
8	November 26 – 27	Chapter 2	Chapter 3
9	December 3 – 4	Chapter 4	Chapter 4
10	December 10 – 11	Chapter 4	Introduction to Access
11	December 17 – 18	Introduction to Access	Chapter 6
12	December 24 – 25	Chapter 6	Chapter 6
13	Dec. 31 – Jan 1	Chapter 7	Chapter 7
14	January 7 –8	Chapter 7	Ethical Issues in IS