

Information Systems Concepts and Applications

INFSYS 2800 – Section 003 Fall-2014

Tuesday and Thursday 8:00am to 09:15am – Room ESH 003

Instructor: *Dr. Shaji Khan* (Ph.D. Business Administration, M.S. Computer. Science, B.A., B.Com)

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Note: If anyone has a health condition or disability which may require my attention, please contact me and the **Disability Access Services Office at 144 Millennium Student Center (ph: 314-516-6554)**

Course Materials

- *Information Systems, Concepts and Applications (IS C&A)*, Third Custom Edition UM-St. Louis, Compiled by Dr. Joseph Rottman (ISBN-13: 978-1-269-28836-1)
- Other Material as assigned and posted on MyGateway

Course Description

Prerequisites: INFSYS 1800 or satisfactory performance on proficiency exam.

Motivation: The impact and usefulness of information systems (ISs) have risen dramatically in the last two decades. Information technology (IT) plays an important role in a variety of areas. These include innovation and entrepreneurship, customer service, market research, regulatory compliance, inventory management, finance/accounting, manufacturing, and so on. Indeed, some argue that the very success or failure of an organization could depend on how well it manages its IS resources or on how well it leverages IS resources to innovate. However, the greater options and technologies also make it difficult to manage, and best utilize IT. Moreover, progress in IT creates issues including those related to privacy, security of information, and intellectual property rights.

Course objectives: This course is designed for individuals who need to understand the role and potential contribution of IT within existing and new organizations. It provides an overview of the established and contemporary issues related to IT. It should help you in making decisions about IT utilization in your roles as a user of ISs, as an IS professional, or as an entrepreneur or innovator with respect to IT. Please note that our focus is not on IT itself, but rather on its applications in business and society. We will also get an overview of *business intelligence* and focus on learning data analysis and presentation using some advanced functionality in Microsoft Excel along with some basic concepts on using a relational database management system.

Learning Outcomes: Upon completion of the course, students will have an understanding of at least the following.

- a. The basics of data, information, and knowledge in relation to Information Systems
- b. How IS and IT may be used to improve organizational efficiency and effectiveness
- c. Overview of Enterprise Systems
- d. Challenges confronting the management of information systems
- e. IT Infrastructure
- f. Fundamentals of Information Security (important topic)

- g. Legal, ethical, and privacy issues related to information systems
- h. Current topics in information systems such as Business Intelligence, “Big-Data”, and Cloud Computing
- i. Using Microsoft Excel for data analysis and presentation (at least at the intermediate level)
- j. Developing solutions to business problems using spreadsheet (Excel) software
- k. Basic understanding of relational database management systems (RDBMS)

Expectations of performance

I expect all students to prepare for, **attend**, and contribute to the classes on a regular basis. Students will lose up to 10% of the course grade for poor attendance (see Attendance section below). Another forum for you to demonstrate your learning is through assignments or quizzes, which together account for 50% of the course grade. We will have two exams that together account for 50% of your course grade. Thus, your grade will be calculated as follows:

Course Component	Weight
Assignments/Quizzes	50%
Midterm Exam	25%
Final Exam	25%
Maximum Possible Final Score:	100%
NOTE: Upto 10% loss in final score for poor attendance	

Grading Policy:

Letter grades will not be assigned to individual components of the course. Only points (numeric scores) will be assigned. These scores will be combined into a ‘Weighted Total’ out of 100, rounded to one decimal place. Depending on this final score, your overall letter grade for this course will be determined as follows:

Final score ranges and corresponding letter grades				
>=94	A		70-73.9	C
90-93.9	A-		66-69.9	C-
86-89.9	B+		62-61.9	D+
82-85.9	B		58-57.9	D
78-81.9	B-		54-49.9	D-
74-77.9	C+		<54	F (fail)

Attendance (Possibility to lose 10% of overall grade due to poor attendance)

It is extremely important you attend all class periods. This material becomes unwieldy when a student has missed a class or two. Overall, I will allow TWO (2) excused absences. For every additional class period missed, you will lose 2% of your overall grade for a maximum of 10%. I will take attendance each class period.

Assignments and Quizzes (50% of your overall grade)

During this semester, I will assign no fewer than four (4) and no more than eight (8) assignments/quizzes combined. These will be assigned when I feel the need that you may benefit from practicing the material covered. I will upload detailed assignment documents to MyGateway and make relevant announcements.

All assignments/quizzes will be turned in through MyGateway. Submission deadlines will be listed on each assignment. Late submissions will receive deductions of 10% for each 24 hour period after the due date until no points remain.

NOTE: Some assignments will weigh more toward your final grade than others. This is especially so for assignments during the later-half of the semester.

Exams (50% of your overall grade)

We will have two exams and each will be worth 25% of your overall grade. Exams will contain objective type questions such as Multiple Choice, “True or False”, “Fill in the blanks” etc. Both exams may include essay or short answer questions and/or exercises in Excel. Exam dates are listed on the schedule page below.

Note:

1. The exams are closed book, closed notes, and “closed friends.” I trust you to strictly adhere to this requirement.
2. The exams are NOT comprehensive. Only material covered prior to Mid-term will be assessed in Mid-term. Only material covered after Mid-term will be assessed in the Final exam.
3. Exam material includes, text-book readings/exercises, class discussions/lectures/PowerPoint slides/videos, assignments/quizzes, cases, and any supplemental material assigned.
4. You will have only one attempt at each exam. I will provide a make-up exam only under extenuating circumstances.
5. I will provide more details on MyGateway as we move closer to the first exam.

Academic Honesty Guidelines: (from Academic Affairs website, Updated April, 27 2010)

Students at the University of Missouri-St. Louis are expected to exhibit the highest standards of academic integrity. An act of academic dishonesty is an offense against the university. For that reason, university rules prescribe disciplinary consequences for academic dishonesty administered by the Office of Academic Affairs, as well as academic consequences assessed by the faculty member. For a description of what constitutes “Academic Dishonesty” and for procedures followed by the University and by faculty members, please refer to: <http://www.umsl.edu/services/academic/policy/academic-dishonesty.html>

Be sure to sign the on-line academic integrity statement: Please go to your “My Academic Toolbox” in MyGateway and find “My Academic Integrity.” After reading the statement, please check the “I accept this agreement” box (if you want to) and then click on the accept button.

Other notes:

1. I will make announcements on MyGateway. I strongly encourage you to visit this course under MyGateway regularly for important updates and documents.
2. Please check your UMSL email account regularly for information/updates regarding this course.

COURSE SCHEDULE

The schedule below is tentative. Please refer to MyGateway for the most updated weekly topics, assigned readings, tasks, and assignments. Please read before the scheduled class period.

Legend: *IS C&A* means our text-book, Information Systems Concepts and Applications

Wk.	Date	Topic	Assigned Readings / Tasks/Assignments
1	8/26	Course introduction, syllabus, course preparation.	<i>Read syllabus</i>
	8/28	Information Systems Defined, fundamental topics	MyGateway Week 1
2	9/2	(contd. Fundamental topics)	<i>IS C & A – Chapter 2</i> MyGateway Week 2
	9/4	How organizations use Information Systems	
3	9/9	<i>MIS Cases – Advanced Excel Functions (A review and Assessment)</i> <i>Case 1 – IS C&A Page 307</i>	MyGateway Week 3 <i>Read Case 1 Page 307</i>
	9/11	(contd.) Case 2	<i>Read Case 2 Page 313</i>
4	9/16	Business Intelligence Overview (Important Topic)	MyGateway Week 4-5 <i>IS C & A – Chapter 6</i>
	9/18	Business Intelligence Contd. Overview of Database Management Systems	<i>SKIM Case 14 Page 401</i>
5	9/23	Business Intelligence Contd. Overview of Database Management Systems	
	9/25	Business Intelligence Contd. Overview of Database Management Systems	
6	9/30	<i>MIS Cases – Contd. Case 2, and Case 3</i>	MyGateway Week 6 <i>Read Case 2 Page 313</i>
	10/2	(contd.) – Case 3 and Case 5	<i>Read Case 3 Page 322</i>
7	10/7	(contd.) – Case 5	MyGateway Week 7 <i>Read Case 5 Page 333</i>
	10/9	(contd.)	
8	10/14	(contd.), Exam 1 Review	MyGateway Week 8
	10/16	Exam 1, regular class time and location	All material covered thus far
9	10/21	Information Security	MyGateway Week 9 - 10 <i>IS C & A Chapter 8</i>
	10/23	Information Security (contd.)	
10	10/28	Information Security (contd.)	
	10/30	Ethical and Social Issues in Information Systems	<i>IS C&A Chapter 4</i>

Wk.	Date	Topic	Assigned Readings / Tasks/Assignments
11	11/4	Enterprise Applications	MyGateway Week 11 <i>IS C & A Chapter 9</i>
	11/6	Developing/Acquiring Systems Outsourcing/Offshoring of Business Services	<i>Skim IS C & A Chapter 13</i>
12	11/11	MIS Cases-Case 9	MyGateway Week 12 <i>Read Case 9, pg. 363</i>
	11/13	(contd.)	
13	11/18	IT Infrastructure, Networks and Cloud Computing	MyGateway Week 13
	11/20	(contd.)	
14	11/25	FALL BREAK	
	11/27	FALL BREAK	
15	12/2	<i>MIS Cases – Case 12</i>	MyGateway Week 15 <i>Read Case 12, pg. 385</i>
	12/4	(contd.)	
16	12/9	MIS Cases – Case 13	MyGateway Week 16 <i>Read Case 13, pg. 393</i>
	12/11	(contd.) Review / What Next	
17	12/16	FINAL EXAM (Exam 2) Date: <u>Tuesday, December 16</u> Time: <u>07:45 – 09:45 AM (NOT OUR REGULAR CLASS TIME)</u> Location: ESH 003 (Regular classroom)	All material covered after Mid-term

--End Syllabus--