

Course Syllabus – MIS 523 – Fall 2012

Course Name: Information Systems Analysis & Specification
Time & Location: M/W 11:40am-1:05pm, SW 325
Course Instructor: Professor Rui (Rae) Huang
Office: AA-316
Phone: (607) 777-6863
E-mail: rhuang@binghamton.edu
Office Hours: M/W 2:00pm-3:30pm. Otherwise by appointment

Lecture Text:

Title: *Modern Systems Analysis and Design*
Authors: Hoffer, George and Valacich
Copyright: 2011, Sixth edition
Publisher: Prentice Hall
ISBN 13: 978-0-13-608821-9
ISBN 10: 0-13-608821-X

Course Objectives:

The overall course objective is to provide you with the concepts and skills you need to analyze and design information systems. The course concentrates on the front-end of the systems development process; that is, the course only lightly touches on the design and development of computer programs and their testing and maintenance (although you will work through some elements of the whole development process on your project).

Upon successful completion of the course, you are expected to:

- Describe the major alternative methodologies used in developing information systems and the considerations involved in choosing which methodology to use.
- Produce the requisite systems documentation at each point in the analysis and design of an information system, and to do so with clarity and completeness.
- Analyze a business need for information and to develop an appropriate strategy to solve the problem and provide the required information service.
- Prepare and use various information gathering techniques for eliciting user information requirements and system expectations.
- Construct and interpret a variety of system description documents, including physical and logical data flow diagrams, entity-relationship diagrams, Structured English, structure charts, and decision tables, as well as screen, form, and report layouts.
- Communicate effectively, in both written and oral forms, systems specifications, and to be persuasive in these presentations.

Composition of Course Grade:

Component	Weight
Mid-Term Exam 1	20%
Mid-Term Exam 2	20%
Final Exam/Oral Presentation	15%
Homework	10%
In-Class Participation/Discussion	15%
Group Assignments	20%
TOTAL	100%

Grading Scale:

Percentage	Letter Grade
93-100	A
90-92	A-
87-89	B+
83-86	B
80-82	B-
77-79	C+
73-76	C
70-72	C-
60-69	D
59 and below	F

Exams: Three exams will be given – the third will be held during the last week of classes and may be replaced by a final presentation of the group project. Exams will be closed book/notes and will include topics from assigned readings, lecture materials, and homework assignments. Multiple choice items and problems are the dominant question format for the three exams. The final exam will not be comprehensive in nature. However, the instructor reserves the right to retest on material that was not appropriately comprehended. Alternative exams are only given with a valid university excuse. Please note that university policy requires that students must provide faculty with notification of the need for accommodation *at least 2 class periods* prior to the exam. Exam dates are specified on the syllabus. If due to an emergency or illness you must miss an exam, it is your responsibility to contact me ahead of time. Make-up exams may be oral, essay, or another form as determined by the instructor.

Homework: End of chapter activities and online activities will be assigned weekly to reinforce material in the text. These assignments may require the application of various software packages. I will “check” homework at the beginning of each class in which problems are due. I look for effort. I don’t want to see copying! I’d far rather see something 75% complete and your effort than 100% complete and plagiarized.

In-Class Participation/Discussion: Learning is increased by discussion and exposure to a subject. *Each lecture day one or two students will be asked to bring in an article (from business magazines, newspapers, and academic journals, etc) related to the topics covered in the immediate previous class and discuss its relevance and application to our lecture. URL or a copy of the article must be emailed to every student and the instructor at least 24 hours prior to the class.* In-class participation/discussion grades will depend on bringing insight from experience and reading of the contributed article, participation in discussion, presentation of homework, attendance, attitude, and punctuality. Class attendance is considered mandatory. You are responsible for all materials and topics discussed in class. You are also responsible for any changes made in assignments, test dates, office hours, etc. If you must miss class, arrange with a classmate to get copies of handouts, notes, find out any changes in schedules, etc. *Extra credit will be given for perfect attendance at the end of the semester.*

Group Assignments: Detailed information on group assignments and the presentation of the group project will be forthcoming at appropriate times during the semester. Be sure to check blackboard for the most up to date information (<https://blackboard.binghamton.edu/>). All assignments are due at the beginning of class on the date due. Late submission of assignments is not allowed and no exceptions are made. Down machines, closed labs, jammed printers, etc. do not constitute valid reasons for assignments to be submitted without a late penalty.

Electronic Communication: I use “blackboard” (blackboard.binghamton.edu) to post lecture materials, homework assignments, grades etc. I also make use of email to provide additional information when necessary (for instance, if a student has a question about a homework assignment, I try to forward the answer to everyone). Therefore, please check your electronic mail and the “blackboard” system frequently. Students are responsible for forwarding their BU mail to a different email account if they do not use their university account. *When sending me an e-mail, please put the course number in the subject line (other details in addition are fine).*

Classroom Hours Policy: Binghamton University’s course structure is based on a four credit hour justification. Class will meet the equivalent of only 3 hours a week. You are expected to use to fourth hour towards the course project.

Students with Disabilities: Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact me as soon as possible after the semester begins so we can discuss necessary accommodations to ensure full participation and facilitate your educational opportunities.

Academic Dishonesty Policy: Dishonest academic behaviors are subject to punishment under the School of Management's published *Procedures for Handling Cases of Suspected Academic Misconduct*. All students are responsible for submitting their own work for evaluation by the instructor. Submitting work authored or created by others anywhere (including the Web), without appropriate reference and credit, will be treated as academic dishonesty resulting in dismissal from the course.

Tentative Schedule

Week	Date	Lecture Topic
1	09/05/12	Chapter 1: The Systems Development Environment
2	09/10/12 09/12/12	Chapter 2: The Origins of Software Chapter 4: Identifying and Selecting Systems Development Projects
3	09/17/12 09/19/12	Rosh Hashanah – no class Chapter 3: Managing the Information Systems Project
4	09/24/12 09/26/12	Chapter 6: Determining System Requirements Yom Kippur – no class
5	10/01/12 10/03/12	Chapter 5 Initiating and Planning Systems Development Projects Chapter 5 Cont'd
6	10/08/12 10/10/12	Exam 1 Chapter 7: Structuring System Process Requirements
7	10/15/12 10/17/12	Chapter 7 cont'd Chapter 7: Structuring Logic Requirements
8	10/22/12 10/24/12	Chapter 8: Structuring System Data Requirements Chapter 8 cont'd
9	10/29/12 10/31/12	Chapter 8 cont'd Chapter 9: Designing Databases
10	11/05/12 11/07/12	Chapter 9 cont'd Chapters 7 & 8 Appendices: Object-Oriented Analysis
11	11/12/12 11/14/12	Exam 2 Chapter 10: Designing Forms and Reports
12	11/19/12 11/21/12	Chapter 10 cont'd Chapter 11: Designing Interfaces and Dialogues (Classes recess 1 pm)
13	11/26/12 11/28/12	Chapter 11 cont'd Chapter 12: Designing Distributed and Internet Systems
14	12/03/12 12/05/12	Chapter 12 cont'd Chapter 13: Systems Implementation
15	12/10/12 12/12/12	Chapter 13 cont'd (or group presentation) Exam 3 (or group presentation)
16	12/17/12	Final week – no class

This course is also offered under the articulation agreement between Binghamton University and SUNYIT. It is available to qualified students at Binghamton University via the distance learning system Enginet.