

Rutgers University
School of Business-Camden
Systems Analysis and Design

52:623:335

Spring 2009 Monday-Wednesday 1:20-2:40 PM

Professor

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Required text: *Systems Analysis and Design*, seventh edition, Kendall, K.E. and Kendall, J.E., Upper Saddle River, New Jersey: Prentice Hall, 2008.

Course Objectives

1. Understand and articulate the roles of the systems analyst in modern organizations and how the analyst functions in each phase of the systems development life cycle. Competence is tested through written exams and by solving group cases.
2. Learn the correct use of multiple systems analysis and design techniques including (but not limited to) interviewing, questionnaires, observation, prototyping, data dictionaries, data flow diagrams, input/output design of screens and forms, user interface design, and database design. Competence and learning are tested through written exams and by solving group cases.
3. Understand a variety of software tools (including CASE tools) to help in the accomplishment of the various phases of systems development. Competence and learning are tested through group and individual assignments.
4. Use HyperCase, a hypertext-based program to simulate organizational systems problems and develop solutions to them.
5. For the end of the term, complete an individual systems project that solves a series of real-life consulting cases. The completed project should demonstrate your ability to apply tools, techniques, and methods learned in the course to solve information systems problems.

Grading Breakdown

<i>Item</i>	<i>%</i>
<i>First examination</i>	35
<i>Second examination</i>	35
<i>Term project</i>	25
<i>Presentations and computer assignments; participation</i>	5

General Policies

1. Limited grading feedback will be available before the last day to drop the course.
2. Students are expected to attend and participate in every session. Come to class prepared to contribute to the discussion. Read the chapters and any relevant outside material you can find.
3. Duties related to your employment or business do not provide an acceptable excuse for class absences, or missed examinations. Make-up exams for non-university approved reasons are not guaranteed. If, for a university approved reason, you cannot take an exam at the scheduled time you must give the professor written notice at least one week in advance so that other arrangements can be made. If the situation does not allow for advance notification (for example, emergency hospitalization), contact the professor as soon as possible after a missed exam and be prepared to provide written documentation to support your absence (such as a doctor's note).
4. **No** incomplete will be given.
5. All changes and announcements will be made in class at least once. If you anticipate being absent from class, find a classmate who can pick up handouts etc. for you, as you are responsible for keeping up with this course. Handouts will be brought to class only once.
6. If a student wishes to have an exam or assignment regraded, the student should resubmit the exam or assignment to me before the next class period. I will regrade the assignment (up or down) **only if no** additional explanation is offered (written or oral).
7. Late projects will be penalized by one complete letter grade (e.g. an A would become a B; on a 100 point scale a 93 would become an 83).
8. Some lectures and discussion will require the use of Sakai.
9. If Rutgers cancels classes for a snow or other emergency, this class will not meet. If an exam is scheduled and the university is closed, the exam will be postponed one class period. Check the course Web page for possible class cancellations. If Rutgers cancels classes on a day when no exam is scheduled, expect the exam to take place on the date originally scheduled. Generally, exams will not be postponed, and grades or questions will be adjusted if necessary.
10. Grading: 90 or above is an A; 87-89 is a B+; 80-86 is a B; 77-79 is a C+, etc.
11. This is a project course. The "final" in this course is the term project.
12. Students are required to turn off their cell phones while they are in class, unless there is an emergency. Emailing, texting, and Web-surfing other than assignments should not be done in class.
13. Students should come to class on time and should stay in class throughout the class period. You have permission to leave the room in an emergency.

Computer/Web Assignments

Computer/Web assignments will be given periodically throughout semester. You are required to keep up to date on when assignments are made, what is required, and when they are due. You will do assignments using a variety of automated tools, including HyperCase, and tools of your choosing, some of which will be available in the university or SBC computer rooms. Assignments will be taken from your main text as well as other sources. Computer projects must be professional looking when you submit them. Each computer assignment must have a separate cover with your name, a title for the assignment, the date, and your section number. Use a laser printer or near letter quality printer so your assignment is readable. Submit an original printout of your computer assignments; DO NOT submit a photocopy of any of them.

<i>Date</i>	<i>Day</i>	<i>Topic</i>	<i>Reading</i>
1/21	Wednesday	Course Overview and Objectives	
1/26	Monday	Roles of the systems analyst; analyst values and client expectations	1
1/28	Wednesday	The systems development life cycle; general systems theory	2
2/2	Monday	Organizational context and culture	
2/4	Wednesday	Project initiation, feasibility, and management; agile methods	3
2/9	Monday	Information Gathering: Interactive Methods	4
2/11	Wednesday	Information Gathering continued	
2/16	Monday	Information Gathering: Unobtrusive Methods	5
2/18	Wednesday	Information Gathering: Unobtrusive Methods (continued)	
2/23	Monday	Agile modeling and prototyping	6
2/25	Wednesday	Agile modeling (continued)	
3/2	Monday	Using data flow diagrams	7
3/4	Wednesday	Creating data dictionaries	8
		Exam Review	
3/9	Monday	Examination #1 Chapters 1-8	
3/11	Wednesday	Exam review; Overview of Design	
3/16	Monday	Spring Break – No classes	
3/18	Wednesday	Spring Break – No classes	
3/23	Monday	Process specs & analyzing structured decisions	9
3/25	Wednesday	COTS software; Preparing the systems proposal	10

3/30	Monday	Designing output & Web design	11
4/1	Wednesday	Output design continued	
4/6	Monday	Designing input & Web design	12
4/8	Wednesday	Input design continued	
4/13	Monday	Designing files and databases	13
4/15	Wednesday	Designing human-computer interfaces	14
4/20	Monday	Designing accurate data entry procedures; coding	15
4/22	Wednesday	Software engineering tools; systems implementation and evaluation	16
4/27	Monday	Systems implementation and evaluation; exam review	17
4/29	Wednesday	Exam #2 Chapters 9-17	18
5/4	Monday	Last Day of Classes – Object oriented approaches & project workshop	
5/11	Monday	Final Exam Day – 2:00 PM	Final projects due