

Rutgers University
School of Business-Camden
Systems Analysis and Design
52:623:335
Spring 2006 Monday 6:00 PM

Professor

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Required text: **Systems Analysis and Design**, sixth edition, Kendall, K.E. and Kendall, J.E., Englewood Cliffs, New Jersey: Prentice Hall, 2005.

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 is tested through written exams and by solving group cases.
3. Understand a variety of automated tools (including CASE tools) to help in the accomplishment of the various phases of the systems development life cycle. Competence is tested through group and individual assignments.
4. Use HyperCase, a hypertext-based program to simulate organizational systems problems and develop solutions to them.
5. Complete an individual systems project for a simulated organization. The completed project should demonstrate your ability to use 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</i>	5

Date	Day	Topic	Reading
1/23	Monday	Course Introduction; Roles of the systems analyst; analyst values and client expectations; the SDLC	1
1/30	Monday	General systems theory; organizational context; project initiation, feasibility, and management, extreme programming	2 & 3
2/6	Monday	Information Gathering: Interactive Methods	4
2/13	Monday	Information Gathering: Unobtrusive Methods	5
2/20	Monday	Prototyping and rapid application development (RAD)	6
2/27	Monday	Using data flow diagrams; Creating data dictionaries; exam review	7 & 8
3/6	Monday	Examination #1 Chapters 1-8	
3/13	Monday	Spring Break – No classes	
3/20	Monday	Process specs & analyzing structured decisions; COTS software	9 & 10
3/27	Monday	Designing output & Web design;	11
4/3	Monday	Designing input & Web design; Designing files and databases	12 & 13
4/10	Monday	Designing user interfaces; Designing accurate data entry procedures; coding	14 & 15
4/17	Monday	Software engineering tools; systems implementation and evaluation; exam review	16 & 17
4/24	Monday	Exam #2 Chapters 9-17	
5/1	Monday	Last Class day Term projects; Object-oriented approaches	18
5/8	Monday	Final Exam Day – 6:00 PM on WebCT; all assignments must be completed	

General Policies

1. Limited grading feedback will be available before the last day to drop the course.
2. Duties related to your employment or business do **not** provide an acceptable excuse for class absences, or missed examinations.
3. **No** incomplete will be given.
4. Changes in the syllabus will be provided as soon as possible. If you are absent, it is your responsibility to obtain notes and possible changes in the schedule **from another student**. You should check the course Web page for changes.
5. 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).
6. 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).
7. Some lectures and discussion will require the use of WebCT.
8. 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.
9. 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. 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 computer labs. 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.