GRANDE PRAIRIE REGIONAL COLLEGE

COURSE OUTLINE - FALL 1998

COMPUTER SYSTEMS TECHNOLOGY 3610

Systems Analysis and Design

INSTRUCTOR

Stephen Rochefort

OFFICE AND PHONE

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Office Hours: Monday, 13:00-14:50, Wednesday and Friday, 11:00 - 11:50

Office hours may also be arranged by individual appointment with the instructor.

Stephen can also be reached at 538-0962 in the case of emergencies.

PREREQUISITE

CS 1140

COURSE DESCRIPTION

By means of lectures and case studies the student will be introduced to the methods used by Systems Analysts in determining the information needs of an organization. The concept of a Systems Development Life Cycle will be discussed in detail. The CASE tool System Architect will be used for the lab portion of the course.

This is an introductory course that includes an overview of information systems as well as in-depth study of systems development life cycles. Emphasis will be placed on tools and techniques used to analyze, design and document information systems. It is highly recommended that students wishing to continue studies of software development do so by enrolling in *CT 3510 - Programming RAD Tools and 4GL's* during the winter term. CT 3510 exposes students to practical aspects of software development through the completion of a team project.

COURSE MATERIALS

Text:

Whitten, J. L., and Bentley, L. D. Systems Analysis and Design Methods, 4th edition. Irwin, 1998.

Materials:

Several 3½" floppy disks are required for saving your work.
Binders for storing project information.

DATES TO REMEMBER

16 September 1998	Last day to Drop Registration for fall courses.
04 November 1998	Last day to apply for Withdrawal With Permission for fall courses.
04 December 1998	Last day of scheduled classes.
08-17 December 1998	Fall Semester Exam Period. The final exam may be scheduled *at any time* during this period. The student should not plan to be absent during this period until his/her final exams have been completed.

EVALUATION PROFILE AND GRADING

Quizzes, Assignments	35%
Term Test 1	15%
Term Test 2	15%
Final Exam	35%
	100%

The final percentage achieved by the student will be converted to GPRC's nine point scale as follows:

9	90 - 100	4	50 - 56
8	80 - 89	3	45 - 49
7	72 - 79	2	26 - 44
6	65 - 71	1	0 - 25
5	57 - 64		

HANDING IN ASSIGNMENTS

Individual assignments should be stapled together or fixed in binders/duotangs for submission. Assignments that are handed in loose will be penalized. Each assignment should begin with a title page having your name, the course name, section number, assignment number and date of submission (not due date) clearly marked on it. (If you set up a title page using a word processor, you can easily change it and reprint it for each assignment). Again, when assignments consist of several pages, it is the *student's* responsibility to ensure that all portions of the assignment are handed in together. Submission of the project component of assignments will be described on the handouts.

COURSE CONTENT

Three hours per week will be dedicated to classroom presentation and discussion of computer topics. The lab component of the course may consist of discussion of tools and techniques for information systems work, instruction in how to use the CASE software chosen for this course, and/or time to apply the methods discussed and to work on assignments. The student will need to use this lab time efficiently in order to complete assignments on time.

Week		Theory Topics	Assignments
1		Introduction to course.	
2	Ch. 1-3:	The Modern Systems Analyst Information Systems Building Blocks Information Systems Development	
3	Ch. 3:	Information Systems Development	Asst. 1
4	App. A: App. B: Ch. 4:	Project and Process Management Fact-Finding and Information Gathering Techniques Systems Analysis	
5	Ch. 4: App. D:	Systems Analysis Joint Application Development	Asst. 2
6	App. C: Ch. 5:	Feasibility and Cost-Benefit Analysis Data Modeling	
7	Ch. 6:	Process Modeling Review	Asst. 3 Term Test 1
8	Ch. 6:	Process Modeling	
9	Ch. 7: Ch. 8:	Network Modeling Object Modeling	Asst. 4
10	App. E: Ch. 9:	Interpersonal Skills and Communication Systems Design and Construction	
11	Ch. 10:	Application Architecture and Process Design Review	Term Test 2
12	Ch. 10: Ch. 11:	Application Architecture and Process Design Database Design	Asst. 5
13	Ch. 12: Ch. 13:	Input Design and Prototyping Output Design and Prototyping	Asst. 6

	Ch. 14:	User Interface Design and Prototyping	
	Ch. 15:	Software Design	
	Ch. 16:	Object-Oriented Design	
14	Ch. 17:	Systems Implementation	
	Ch. 18:	Systems Support	

The readings from the Whitten and Bentley text are required, and are examinable material. The student should read the indicated chapters either before or during the week the material is presented in class.

The exact course content, order of presentation and schedule described above are subject to adjustment at the instructor's discretion.