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SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

C O U R S E O U T L I N E

Course Title: Systems Analysis and Design

Code No.: EDP 108-4

Program: Electronic Data Processing

Semester: III

Date: 1984-09-05

Author: R. Lailey

New: _____ Revision: X

APPROVED:

[Signature]

Chairperson

Date:

85-08-28

SYSTEMS ANALYSIS AND DESIGN

EDP 108-4

Course Length - 4 periods per week for one semester

Required Text - "Elements of Systems Analysis"; 3rd edition; Gore and Stubbe

- "Elements of Systems Analysis" - Student Workbook; 2nd edition
by Gore and Stubbee

Course Overview:

This course focuses upon the role of the Systems Analyst in the development and implementation of automated systems. Major emphasis is placed on the potential of such systems to increase business and industry productivity by the application of modern technology. Throughout the course "top-down" structured techniques are presented and utilized.

The course will begin with an examination of the background concepts which are most important to the function of the Systems Analyst. This will be followed by an introduction to the skills utilized, or tools, by the Systems Analyst. The remainder of the course will be taken up with a more detailed examination of each of the four phases of the life-cycle process of business information systems. Students will apply many of the concepts studied in the course of completing the case study assignments found in the student workbook.

Student Evaluation:

The student's final grade will be determined from the following components:

Tests - 3 @ 20% = 60%

Assignments - 11 @ 3% = 33

Participation 7

Note: Students are expected to attend class regularly and to participate in class discussions and/or assignments.

Grading:

A	=	85	-	100
B	=	70	-	84
C	=	55	-	69
R	=	0	-	54

Deadlines:

Late assignments will be subject to a penalty of 20%. If submitted after the return of the graded assignment to the class, a mark of '0' will be assigned.

Students receiving a '0' grade on four or more assignments will receive an 'R' grade.

Re-Writes:

Students who provide an acceptable written excuse will be allowed to re-write a test. No other re-writes will be granted.

General Course Format:

The text and workbook contain considerably more material than can be covered in class on a lecture basis. Students will be expected to have read the section of the text under discussion before attending class. Classes will generally follow a lecture/discussion format. Time will be provided to work on assignments on a group basis.

Learning Objectives:

Each chapter in the text tests a number of specific objectives. Test questions and assignments will be developed with the specific intention of measuring the student's achievement of these objectives.

TOPIC OUTLINE

<u>Topic No.</u>	<u>Topic Description</u>	<u>Reference</u>	<u>Week</u>
<u>Unit I - Information Systems and the Systems Analyst</u>			
1	Information and It's Management	Ch. 1	1
2	Life Cycle of the Business Information System	Ch. 2	2
3	The Role of the Systems Analyst	Ch. 3	2
	<u>Assignment #1</u>		
4	The Business as an Information System	Ch. 4	3
<u>Unit 2 - Tools and Techniques of Systems Analysis</u>			
5	Coding	Ch. 5	3
	<u>Assignment #2</u>		
6	Forms Design	Ch. 6	4
	<u>Assignment #3</u>		4
7	Charting Techniques		5
	<u>Assignment #4</u>		5
8	Flowcharting	Ch. 8	
	<u>Assignment #5</u> -- <u>TEST #1</u>		
<u>Unit 3 - The Study Phase</u>			
9	Study Phase Overview	Ch. 10	6
10	Initial Investigation	Ch. 11	6
11	System Performance Definition	Ch. 12	6
	<u>Assignment #6</u>		7
	TEST #1		

<u>Topic No.</u>	<u>Topic Description</u>	<u>Reference</u>	<u>Week</u>
12	Feasibility Analysis	Ch. 13	8
	<u>Assignment #7</u>		8
13	Study Phase Report and Review	Ch. 14	9
	<u>Assignment #8</u>		9
<u>Unit 4 - The Design Phase</u>			
14	Design Phase Overview	Ch. 15	10
15	System Design	Ch. 16	10
16	Output Design	Ch. 17	11
	<u>Assignment #9</u>		11
17	Input Design	Ch. 18	12
	<u>Assignment #10</u>		12
18	Design Phase Report and Review	Ch. 20	12
		<u>TEST #2</u>	
<u>Unit 5 - The Development Phase</u>			
19	Development Phase Overview	Ch. 21	13
20	Preparing for Implementation	Ch. 22	13
	Assignment #11 (#12 in workbook)		13
21	Development Phase Report and Review	Ch. 24	14
<u>Unit 6 - The Operation Phase</u>			
22	Operation Phase Overview	Ch. 25	14
23	Changeover & Routine Operation	Ch. 26	15
24	Performance Evaluation and Management of Change	Ch. 27	15
			15
		<u>TEST #3</u>	