

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Outline: SYSTEM ANALYSIS AND DESIGN

Code No.: EDP 108-4

Program: BUSINESS PROGRAMMER

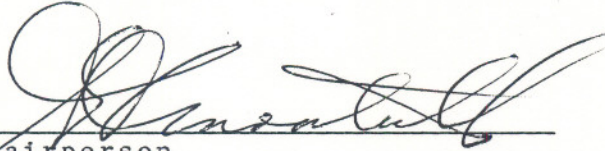
Semester: III

Date: SEPTEMBER, 1986

Author: WILLEM DEBRUYNE

New: _____ Revision: X

APPROVED:


Chairperson

86-05-14
Date

Course Name

Course Number

CURRICULUM OVERVIEW:

a) Course Name: Systems Analysis and Design
Course #: EDP108
Semester: III

b) Prerequisites: NIL

c) Course Synopsis:

The course is based on the theory that all "systems" follow the same organizational rules and are basically subject to the same methods of analysis. Once the student has mastered the technique of analysis in one subject area, the knowledge is easily applied to solve other system problems in other areas. The course will focus on converting manual operations into a computer based system. The majority of time will be spent on analyzing the traditional life cycle methodology to solving business problems and conclude with some present trends and future directions of the science of System Analysis and Design.

d) Textbook: Elements of Systems Analysis; by Marvin Gore & John Stubbe,
3rd edition

A SAD Case Study; by Ronald G. Noice

e) **MODULE DESCRIPTION:**

Module 1: Will provide the background concepts in systems analysis, which focuses on the life cycle concept and managing the resource "information".

Module 2: Introduce the skills required in systems analysis, i.e. coding, forms design, written and verbal communications.

Module 3: The Study Phase is introduced which is the first of a four cycle phase. This module prepares the student to perform activities necessary to identify a computer-based business information system problem and make recommendations for solutions.

Module 4: The Design Phase teaches the student to perform tasks such as system design, output design, input design, file design and DBMSs.

Module 5: The Development Phase, the student is introduced to two principle topics, the implementation and computer program development.

Module 6: The Operation Phase introduces the student to the operating environment of a computer-based business information system. This includes the changeover from the manual to the computer system, as well as performance evaluations. Present trends, future direction of systems analysis and design.

Module 7: Conclusion and summary.

f) Course Role Within the Program:

The course will prepare the student to design and implement large computer-based systems in a team environment. The student will utilize these skills of analyzing, designing, and implementing systems throughout all courses they are taking.

g) Time Frames:

Week 1 - Introduction
- Chapter 1 (Gore/Stubbe)
- Chapter 2 (Gore/Stubbe)
- Discussion of learned material

Week 2 - Chapter 3
- Chapter 4
- Discussion

Week 3 - Introduction to Case Study
- Chapter 5
- Chapter 6
- **Assignment #1 due**
- Discussion

Week 4 - Chapter 7
- Chapter 8
- Discussion/Review

Week 5 - Chapter 9
- **Test 1**
- Discussion

Week 6 - Chapter 10
- **Assignment #2 Due**
- Take Up Test
- Discussion

- Week 7 - Chapter 11
 - Chapter 12
 - Discussion

- Week 8 - Chapter 13
 - Chapter 14
 - **Assignment #3 due**
 - Discussion

- Week 9 - Chapter 15
 - Chapter 16
 - **Assignment #4 Due**
 - Discussion

- Week 10 - Chapter 17
 - Chapter 18
 - Discussion/Review

- Week 11 - **Test 2**
 - **Assignment #5 Due**

- Week 12 - Take Up Test
 - Chapter 19
 - Discussion

- Week 13 - Chapter 20
 - **Assignment #6 Due**
 - Discussion

- Week 14 - Chapter 21
 - Chapter 22
 - **Assignment #7 Due**
 - Discussion

- Week 15 - Chapter 23
 - Chapter 24
 - Discussion/Review

- Week 16 - **Assignment #8 Due**
 - **Test 3**

h) Student Evaluation:

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

Tests	(3 @ 20%)	=	60%
Assignments	(8 @ 4%)	=	32%
Participation/Attitude		=	8%
			<hr/>
			100%

b) Grading:

"A"	=	80	-	100%
"B"	=	70	-	79%
"C"	=	55	-	69%
"R"	=	0	-	54%

NOTE: Students are expected to attend class regularly and to participate in class discussions. Late assignments are subject to a zero grade unless the student has **PRIOR** permission to hand the assignment in at a later date from the instructor.