

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Outline: ELEMENTARY COMPUTER CONCEPTS

Code No.: EDP 235-3

Program: HOTEL AND RESTAURANT MANAGEMENT

Semester: THREE

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Author: R.D. LAILEY

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APPROVED:   
Chairperson

86-09-02  
Date

ELEMENTARY COMPUTER CONCEPTS

EDP 253-3

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Course Name

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Course Number

PHILOSOPHY/GOALS:

The student will understand and be able to demonstrate:

1. The use of data processing in the business environment, with specific reference to Hotels & Restaurants.
2. The contribution of data processing to business decision making.
3. The various methods of computer-based data processing systems.
4. Elementary knowledge of programming using a high-level programming language such as BASIC.
5. Ability to use application packages on a computer system.
6. Comprehension of the impact of computers on everyday life.

TEXT: "Computers and The Information Society", Radlow, McGraw-Hill

METHOD OF ASSESSMENT (GRADING METHOD):

The student will be required to read the textbook. Quizzes, tests, and homework assignments will require knowledge of its contents.

Homework assignments will be based on the textbook and on lecture notes. Other assignments will be given by the instructor which may include additional resources. Program assignments and other projects will be collected, graded and returned to the student. No credit will be given for program assignments which fail to run correctly or which do not display the correct output.

Students are expected to attend classes and to participate actively.

GRADING:

A+	-	90%	-	100%
A	-	80%	-	89%
B	-	70%	-	79%
C	-	55%	-	69%
I	-	less than		55%

STUDENT EVALUATION:

Tests (2 @ 35%) - 70%  
Assignments - 15%  
Quizzes/Participation - 15%

SPECIFIC OBJECTIVES:

NOTE: Module B will run parallel to Module A on a practical assignment and usage basis.

Module A:

**REFERENCE**

**TOPIC**

- Chapter 1      INTRODUCTION: After completion of this section the student will be able to:
- describe the importance of computers in today's world
  - explain what a computer is and its role as part of a computer system
  - define fundamental computer terms and concepts
  - define the various sizes of computers - microcomputers, minicomputers, mainframes
  - explain the necessity for learning about computers
- Chapter 2      HOW COMPUTERS PROCESS DATA: After completion of this section the student will be able to:
- describe the most common types of input, output, and storage equipment and media
  - define terminology applied to support devices for example, peripheral, auxiliary, online and offline
  - explain the field, record, and file concepts relating to the organization of data
  - differentiate between the key classes of software: applications software and systems software
- Chapter 3      COMPUTERS PAST AND PRESENT: After completion of this section the student will be able to:
- describe the remarkable evolution of computer technology
  - explain the key hardware developments during the four generations of computers
  - name the people and organizations that have played an important role in the history of computers and be able to describe the contribution of each.

**REFERENCE**

**TOPIC**

- Chapter 4      THE CENTRAL PROCESSING UNIT (CPU):    After completion of this section the student will be able to:
- explain how the main sections of the CPU function
  - describe how computers process instructions
  - differentiate between ROM and RAM
- Chapter 4      SECONDARY STORAGE:    After completion of this section the student will be able to:
- explain the role of secondary storage
  - define the purposes and types of magnetic tapes and magnetic disks: explain how the data is stored and accessed on this media
  - describe the tradeoffs involved between disk and tape storage
  - comment on the methods for organizing and accessing data in secondary storage
- Chapter 4      INPUT AND OUTPUT EQUIPMENT:    After completion of this section the student will be able to:
- name and describe a wide variety of input and output devices
  - describe a variety of types of display terminals and their capabilities
  - describe a variety of types of printers and their capabilities
  - describe a variety of other source-data automation (OCR and MICR) and special purpose input/output equipment
- Chapter 8      DATABASE PROCESSING:    After completion this section the student will be able to:
- describe the concept of a database and the importance of the database approach
  - describe the advantages and disadvantages of database processing
- Chapter 11     TELEPROCESSING:    After completion of this section the student will be able to:
- understand in basic terms how teleprocessing methods are used in computer systems
  - know what modems are and how they are used
  - recognize the teleprocessing services available though common carrier, value-added networks, and local-area networks

**REFERENCE**

**TOPIC**

- Chapter 5      SYSTEMS SOFTWARE:    After completion of this section the student will be able to:
- explain the purpose of system software
  - describe the primary role and functions of the operating system
  - describe the role of language translators and utility programs
- Chapter 5      APPLICATIONS SOFTWARE:    After completion of this section the student will be able to:
- describe the importance of applications software development
  - explain the program development cycle and the importance of documentation
  - name and describe briefly several of the most common software application packages currently on the market
- Chapter 9&10    PERSONAL COMPUTER SYSTEMS:    After completion of this section the student will be able to:
- describe of the nature and use of personal computer systems
  - describe the characteristics of the hardware found on most personal computers
  - comment on the use of personal computers for electric games, personal finance and planning, word processing, education, home control, and information networks

MODULE B:

Chapter 9:

After completion of this section the student will be able to:

1. Define or explain a number of features of the BASIC language and its structure.
2. Understand and use BASIC commands to display, store and retrieve programs.
3. Use a variety of statements in BASIC for simple input, process and output operations.
4. Write BASIC programs for simple keyboard inputs and be able to print simple reports and perform basic arithmetic and compare operations.

5. Utilize some applications packages from a "user" perspective relevant to ones they may encounter in their field of work.

\*\*\* SUBJECT TO MODIFICATION \*\*\*