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

COURSE OUTLINE

COURSE TITLE:	MICROCOMPUTER APPLICATIONS	
CODE NO.:	COM100	SEMESTER: TWO
PROGRAM:	CAREER ADJUSTMENT PRO	GRAM
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DATE:	DECEMBER, 1995	
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PREVIOUS OUTLINE		
DATED:	NEW	
APPROVED:	11. Cines	95-01-04
DEAN, SCHOOL OF BUSINESS & DATE HOSPITALITY		

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Total Credits: 4

Total Credit Hours: 64

Prerequisites: None

I. PHILOSOPHY/GOALS:

This course is designed to provide students with the level of computer literacy needed to function in today's workplace. Utilizing a hands-on approach, the concepts of microcomputer operating systems (DOS), word processing (WordPerfect 5.1), and spreadsheet (Lotus 1-2-3) applications will be covered. In addition, students will develop keyboarding skills through the use of an automated typing tutor program.

II. STUDENT PERFORMANCE OBJECTIVES:

Upon successful completion of this course, the student will:

- 1. Have learned the basic skills necessary to input data through the use of a keyboard.
- 2. Be able to keyboard from straight copy at a minimum rate of 16 gross w.p.m. for three minutes with a maximum of 3 errors under supervised conditions.
- 3. Be able to describe the components of a computer and outline the functions of each.
- 4. Discuss computer software and explain the difference between system software and application software.
- 5. Describe several types of personal computer applications software.
- 6. Be able to use basic WordPerfect 5.1 functions.
- 7. Be able to use basic Lotus 1-2-3 functions.
- 8. Be able to use basic DOS commands.
- 9. Be able to proofread.

III. TOPICS TO BE COVERED:

- 1. Overview of the Typequick Program (including loading the program using the Keyboarding Menu and printing results).
- 2. Touch keyboarding techniques.
- 3. Keyboarding speed and accuracy development.
- 4. Proofreading skills.
- 5. Overview of microcomputers: identifying the components of a computer and describing their functions; distinguishing between data and information; distinguishing between system software and application software; understanding the steps involved in purchasing, setting up and maintaining a PC; and formatting a disk to make it useable.
- 6. WordPerfect 5.1 basic functions: creating; saving; retrieving; editing; formatting; printing; moving; copying; spell checking; searching and replacing; changing margins and line spacing; indenting text; adding page numbers; setting tabs; using headers and footers; and viewing a document prior to printing.
- 7. DOS 5.0 basic functions: checking date, time and default drive; using file specifications for files stored on disk; distinguishing between internal vs. external DOS commands; clearing the screen; copying files; listing a directory; renaming files; displaying the contents of a file to the screen; deleting files from the disk; creating and deleting subdirectories; changing the current directory; changing the DOS prompt; specifying a path; using wildcard characters; using /P and /W options of the DIR command; and checking the status of a disk.
- 8. Lotus 1-2-3 basic functions: entering labels, values and formulas; saving; printing; correcting errors; using UNDO and help; retrieving; adjusting column width; using cell ranges, formatting a worksheet; copying entries; using SUM and AVG; determining percentages; displaying formulas in the worksheet; using NOW; moving contents of a range of cells; inserting/deleting rows and columns; freezing horizontal and vertical titles; entering percentage values; using highlighting method to sum range values; changing default settings; and graphing.

IV. LEARNING ACTIVITIES/REQUIRED RESOURCES:

(1) **KEYBOARDING** (12 hours)

Learning Activities:

Prior to the beginning of the keyboarding component, the instructor will provide an overview of the following topics:

Turning on the microcomputer and printer Familiarization of equipment - monitor

- CPU

- disk drive

- printer

- keyboard

Review of Typequick program - loading & main menu

Introduction to keyboarding menu

Arrangement of work station

Posture checkpoint

Keyboarding technique

Print options and procedures

Reports

Document production

Using the Typequick Typing Tutor Program, students will then complete the following lessons:

Lesson 1 - a s d f j k l ; space and return

Lesson 2 e h i . left shift

Lesson 3

- t n r o
- c u v w right shift
- g x p , Lesson 4

Lesson 5

Lesson 6 qmyzb

Time Permitting:

Lesson 7 - 12345 Lesson 8 Lesson 9 6 7 8 9 0

Speed BuildingAccuracy Improvement Lesson 10

Resources:

Typequick Disk

(2) INTRODUCTION TO COMPUTERS (2 hours)

Following completion of Module 1 - INTRODUCTION TO COMPUTERS, the student should be able to:

 Describe the components of a computer and outline their functions.

2. Distinguish between data and information.

- Distinguish between system software and application software.
- 4. Function in the microcomputer environment at Sault College.

5. Associate the microcomputer environment at Sault College with the concepts of LAN and WAN networks.

- 6. Understand the steps involved in purchasing, setting up, and maintaining a PC.
- 7. Format a disk to make it useable (see DOS8 DOS11).

Resources:

Read: COM1-COM30

Complete: Student Assignment 1, Student Assignment 2

(3) WORD PROCESSING USING WORDPERFECT 5.1 (28 hours)

<u>Learning Activities</u>:

Following completion of Module 2 - WORD PROCESSING USING WORDPERFECT 5.1, the student should be able to:

Project 1 - Creating and Editing a Document

- 1. Both gain access to and exit from WordPerfect.
- Create, name, save, retrieve, edit, and print a document.
- 3. Use the reveal codes feature to locate text and codes.

Resources:

Read: WP1-WP26

Complete: Student Assignments 1 to 10

Project 2 - Formatting Text

- 4. List the files on disk.
- 5. Delete and restore text.
- 6. Switch between "insert" and "typeover" mode.
- 7. Underline, centre, bold, and double space text.

- 8. Use reveal codes to locate and delete unwanted text and/or codes.
- 9. Save a document under a new name.
- Use the spell check to locate and correct spelling mistakes.

Resources:

Read: WP32-WP64

Complete: Student Assignments 1 to 10

Project 3 - Moving, Searching, and Replacing Text

11. Move text to new locations within a document.

12. Apply the concept of "indentation" in a document.

13. Use the "search" and "replace" functions to effect global changes in a document.

14. Quit WordPerfect and save a document while doing so.

Resources:

Read: WP70-WP92

Complete: Student Assignments 1 to 10

Project 4 - Formatting a Document

15. Add page numbers to a document.

16. Change margins.

17. Use both the default and custom tabs.

18. Create and edit headers and footers.

19. Incorporate footnotes.

20. Use the View Document feature to visualize a document before printing.

Resources:

Read: WP98-WP128

Complete: Student Assignments 1 to 10

(4) INTRODUCTION TO DOS (6 hours)

Following completion of Module 3 - INTRODUCTION TO DOS, the student should be able to:

Project 1 - Working with Files on Disk

- Check and/or modify the following on a microcomputer system - time, date, default drive.
- Use file specifications for files stored on disk.

- 3. Distinguish between internal and external DOS commands.
- 4. Clear the screen.

5. Copy files from one disk to another.

6. List a disk directory and understand what is displayed.

7. Rename files.

8. Display the contents of a file to the screen and print what is currently displayed.

9. Delete files from disk.

Resources:

Read: DOS2-DOS19

Complete: Student Assignments 1 to 6

Project 2 - Managing and Organizing Files on Disk

- 10. Create and delete subdirectories.
- 11. Change the current directory.

12. Change the DOS prompt.

13. Specify a path.

- 14. Understand and use the wild card characters with DOS commands.
- 15. Copy all files from one disk to another.
- 16. Use the /P and /W options of the DIR command.

17. Check the status of a disk.

18. Recognize and understand common DOS error messages.

Resources:

Read: DOS25-DOS41

Complete: Student Assignments 1 to 6

(5) LOTUS 1-2-3, Version 2.2 (14 hours)

Following completion of Module 4 - INTRODUCTION TO LOTUS 1-2-3, the student should be able to:

Project 1 - Building a Worksheet

- 1. Both gain access to and exit from Lotus 1-2-3.
- 2. Identify the components of a spreadsheet.
- 3. Move the cell pointer to various locations.
- 4. Distinguish between label and value entries.
- 5. Enter labels, values, and formulas into a worksheet.
- 6. Save and print a worksheet.
- 7. Correct errors in a worksheet.
- 8. Use the UNDO command.
- 9. Access and use the help facility.

Resources:

Read: L2-L34

Complete: Student Assignments 1 to 10

Project 2 - Formatting and Printing a Worksheet

- 10. Retrieve a worksheet.
- 11. Adjust column widths.
- 12. Understand and use cell ranges.
- 13. Format a worksheet.
- 14. Copy entries in a range of cells to other cell locations.
- 15. Use the Sum and AVG functions (see L159-L160 for AVG functions).
- 16. Determine a percentage.
- 17. Print a partial or entire worksheet.
- 18. Print the cell-formula version of a worksheet.
- 19. Display formulas in the worksheet.

Resources:

Read: L44-L82

Complete: Student Assignments 1 to 10

Project 3 - Enhancing Your Worksheet

- 20. Use the NOW function to display the current date and time.
- 21. Move the contents of a range of cells to other locations in a worksheet.
- 22. Insert and delete rows and columns.
- 23. Freeze horizontal and vertical titles.
- 24. Enter percentage values.
- 25. Distinguish between "relative" and "absolute" addressing.
- 26. Copy "absolute" cell addresses.
- 27. Use the highlighting method of sum range values.
- 28. Print a worksheet in condensed mode.
- 29. Print selected nonadjacent columns.
- 30. Apply "what if" analysis.
- 31. Use both manual and automatic recalculation.
- 32. Change default settings.
- 33. Temporarily exit 1-2-3 and return control to DOS.

Resources:

Read: L92-L142

Complete: Student Assignments 1 to 8

<u>Project 5 - Creating Elementary Graphs</u>

34. Create pie, line, and bar graphs.

35. Save a worksheet with the graph settings. 36. View the current graph.

Resources:

Read: L192-221

Complete: Student Assignments 1, 2, 4, 5, 7

IV. METHODS OF EVALUATION:

A+ 90-100%

A 80- 90% B 70- 79%

C 60- 69%

R Below 60% (Repeat Grade)

GRADING:

- -2 Proofreading/spelling
 -1 Format errors
- -1/2 Incorrect punctuation

BREAKDOWN OF FINAL GRADE:

KEYBOAR	DING SPEED*	-	10%
ASSIGNM	ENTS	-	35%
TESTS:	DOS/INTRO TO COMPUTERS	-	5%
	WORDPERFECT 5.1 - TEST #1 TEST #2	_	15% 15%
	LOTUS 1-2-3	-	20%
TOTAL			100%

*The keyboarding speed component represents 10 percent of the final mark. This grading is achieved as follows:

SPEED - G.W.P.M. (max. 3 errors on three, 3-minute timed writings)	TERM MARK (represents 10%)
20 and above	10%
19	9%
18	8%
17	7%
16	6%
15	5%
14	4%
13	3%
12	2%
11	1%
10 or less	0%
13 12 11	3% 2% 1%

NOTES:

1. Beginners - Any student wishing to know his/her keyboarding speed will receive timings during the first class.

If the student has no previous keyboarding background, Typequick lessons should be completed.

2. Alphabetic keyboarding lessons 1-6 should be completed and submitted at a 95 percent accuracy level. Numeric keyboarding lessons 7 & 8 should be completed and submitted at a 90 percent accuracy level.

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3. Keyboarding competency - Following discussion with the instructor, students with keyboarding proficiency may elect to complete only the timed writings of the keyboarding component. The term mark assigned for the keyboarding component will correspond to the speed achieved on the timed writings.

Those students who elect to complete only the timed writings without completing the Typequick program will be provided with supplemental computer exercises designed to broaden and enhance their computer background.

- 4. Timings will be held each week following the three-week Typequick component as required.
- 5. Due dates for the daily assignments: 100 percent completion of all assignments is expected. Any class assignment submitted 1-3 days (holidays and weekends included) after the due date will be subject to a loss of 10 percent of the assignment value. No mark will be assigned after the third consecutive day the assignment is late.
- of illness or a legitimate emergency, that student must contact the teacher <u>prior</u> to the test or as soon as possible and provide an explanation which is acceptable to the teacher (medical certificate or other appropriate proof may be required). In cases where the student has contacted the teacher and where the reason is not classified as an emergency, i.e. slept in, forgot, etc., the highest achievable grade is a "C." In cases where the student has not contacted the teacher, the student will receive a mark of "0" on that test.

WARNING: Academic dishonesty will result in a grade of zero (0) on the assignment or test for all parties.

Students are advised to maintain a back-up of all files on diskette. Loss of output due to a lost or damaged diskette will not be an acceptable reason for a late or incomplete assignment.

VI. REQUIRED STUDENT RESOURCES:

Typequick, Keyboarding Training Course, Typequick Pty., 1. Limited (3 1/2" disk)

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- Microcomputer Applications Kit, by Shelley and Cashman 2. Includes the following modules:

 - 1) Introduction to Computers
 2) Introduction to DOS
 3) WordProcessing Using WordPerfect 5.1
 - 4) Spreadsheets Using Lotus 1-2-3, Release 2.2
- Disks 3 3 1/2" high density 1.44mb diskettes 3.
- 4. One plastic disk container
- File folder in which to submit assignments and disks 5.

VII. SPECIAL NOTES:

Students with special needs (e.g. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the teacher.

Your teacher reserves the right to modify the course as deemed necessary to meet the needs of students.