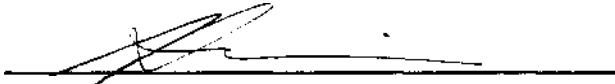



SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY  
SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: MATHEMATICS  
CODE NO.: MTH 104-2 SEMESTER: II  
PROGRAM: HOTEL & RESTAURANT MANAGEMENT  
AUTHOR: W. O. MAKI  
DATE: JUNE 1993 PREVIOUS OUTLINE DATED: JUNE 1991

APPROVED:  DEAN  DA#E 2//&S

MATHEMATICS

MTH 104-2

COURSE NAME

CODE NO.

TOTAL CREDIT HOURS: 32

PREREQUISITE(S): NONE

**I. PHILOSOPHY/GOALS:**

Understanding fractions, decimals, percents and application of these in business problems. Using metric system efficiently. Understanding ratio and proportion and its applications. Constructing graphs and interpretation of them.

**II. STUDENT PERFORMANCE OBJECTIVES:**

The basic objectives are that the student develop an understanding of the methods studied, demonstrate a knowledge of the facts presented and show an ability to use these in the solution of problems. To accomplish these objectives, exercises are assigned. Test questions will be of near equal difficulty to questions assigned in the exercises. The level of competency demanded is the level required to obtain an overall passing average on the tests. The material to be covered is listed below.

**III. TOPICS TO BE COVERED:**

1. Whole Numbers and Fractions
2. Decimals and Basic Operations
3. Percentages - Conversion to and from fractions & applications
4. Ratio and Proportion
5. Graphs and Tables

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**IV. LEARNING ACTIVITIES:**

**REQUIRED RESOURCES:**

- 1.0 WHOLE NUMBERS and FRACTIONS TEXT: Questions
- 1.1 Reading and writing large numbers pp. 1-2  
Place value pp. 3-4  
pp. 15-16
- 1.2 Rounding off numbers pp. 39-56
- 1.3 Adding and subtracting fractions
- 1.4 Multiply and divide fractions and mixed fractions
- 2.0 DECIMALS
- 2.1 Decimal fractions pp. 73
- 3.0 PERCENTAGES
- 3.1 Percent to decimal pp. 73-74  
pp. 75-78
- 3.2 Decimal to percent
- 3.3 Application
- 4.0 RATIO AND PROPORTION
- 4.1 Definition of ratio and proportion pp. 85-86
- 4.2 Applications

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**IV. LEARNING ACTIVITIES: (cont'd)**

**REQUIRED RESOURCES:**

5.0 METRIC

Handout

5.1 Changing metric to metric units

5.2 Changing metric to English units

5.3 Application of metric and English conversions

6.0 GRAPHS AND TABLES

TEXT: Questions

6.1 Reading and constructing graphs : bar graph, line graph and pie chart

pp, 69-70  
pp, 65-66

6.2 Reading tables

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**V. EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS ETC.)**

three tests of equal value  
attendance expected  
grading as follows:

A+ = 90-100%  
A = 80-89%  
B = 65-79%  
C = 55-64%  
R = Repeat

**VI. REQUIRED STUDENT RESOURCES:**

"ESSENTIAL OF BUSINESS MATH", 4th edition. Alvey. McGraw Hill.

**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 instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.