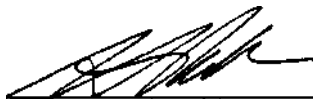# SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

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 1991   **PREVIOUS OUTLINE DATED:** JUNE 1988

APPROVED: _____

DEAN   DATET

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
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 a
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   <u>WHOLE NUMBERS and</u>   TEXT: Questions
      <u>FRACTIONS</u>

1.1   Reading and writing large   pp. 1-2
      numbers   pp. 3-4
      Place value   pp. 15-16
                                                     pp. 39-56
1.2   Rounding off numbers

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   <u>PERCENTAGES</u>

3.1   Percent to decimal   pp. 73-74
                                                     pp. 75-78
3.2   Decimal to percent

3.3   Application

4.0   <u>RATIO AND PROPORTION</u>

4.1   Definition of ratio and   pp. 85-86
      proportion

4.2   Applications

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

5.0 <u>METRIC</u>   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 <u>GRAPHS AND TABLES</u>   TEXT: Questions

6.1 Reading and constructing   pp. 69-70
     graphs : bar graph, line   pp. 65-66
     graph and pie chart

6.2 Reading tables

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.