

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

COURSE TITLE: MATHEMATICS

CODE NO.: MTH 111-5

SEMESTER:

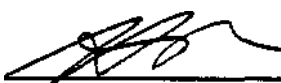
PROGRAM: BUSINESS MANAGEMENT


MJ> THOR: J. GLOWACKI

DATE: AUGUST 1992

PREVIOUS OUTLINE DATED: JUNE 19 91

APPROVED:

  
DEAN

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DATE

MATHEMATICS

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TOTAL CREDIT HOURS: 80

PREREQUISITE(S): NONE

**I. PHILOSOPHY/GOALS:**

The objectives of this course are to develop speed and accuracy in basic arithmetic, master the skills of basic algebra and be able to solve many of the math problems encountered in the business world. This course also provides the basic knowledge of algebra necessary to successfully complete the Math of Finance and Statistics courses given in later semesters.

**II. STUDENT PERFORMANCE OBJECTIVES:**

The basic objectives are that the student develop an understanding of the methods studied, knowledge of the facts presented and 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. Review of Arithmetic
2. Review of Algebra
3. Ratio, Proportion and Percent
4. Linear Systems - Graphic & Linear Solutions
5. Discounts and Markup

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**LEARNING ACTIVITIES:**

**REQUIRED  
RESOURCES:**

TOPIC

EXERCISES

CHAPTER 1:

Review of Arithmetic

p. 1-14  
Ex. 1.1-1.2

Addition and subtraction,  
multiplication and division  
Operations with fractions, mixed  
fractions, decimal fractions,  
basic problems

CHAPTER 2:

Review of Basic Algebra

p. 27-44  
Ex. 2.1-2.3

Fundamental operations and laws with  
signed numbers  
Simplification of algebraic  
expressions  
Factoring and Exponents

CHAPTER 2:

Linear Equations in one variable  
and word problems

p. 49-66  
Ex. 2.5-2.7

CHAPTER 3:

Ratios, Proportion and Percent

p. 68-110  
Ex. 3.1-3.6

Percents to fractions and decimals  
Basic percent problems  
Rate percent, increase and decrease  
Applications

CHAPTER 4:

Linear Systems

p. 112-152  
Ex. 4.1-4.6

Linear equations and inequations  
and their graphs  
Solution by addition and subtraction  
3 unknowns and their solutions  
Problem solving

CHAPTER 6:

Commercial Discount

p. 191-232  
Ex. 6.1-6.4

Mark-up and mark-down  
Cash discount

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

The final mark will be based on four unit tests, each representing 25% of the final mark.

**GRADING:**

A+	=	90	--	100%
A	=	80	--	89%
B	=	65	--	79%
C	=	55	--	64%
R	=	0	--	54%

A passing grade will be based on a minimum grading of 55%. Students obtaining a grade of 45-54% may be allowed to write a rewrite test. However, only students who have attended at least 80% of the math classes will be considered for a rewrite test.

**VI. REQUIRED STUDENT RESOURCES:**

Textbook: Contemporary Business Math; S.A. Hummelbrunner  
2nd Edition (Prentice-Hall)

Calculator: Basic Functions

**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.