DOC. NO. 44:

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: MATHEMATICS

Code No.: MTH 099-4

Program: FORESTRY

Semester: ONE

Date: JUNE, 1989

Author: K. R. PELEW

New: Revision: X

APPROVED: Chairperson Da££ /

I« ^!j

JUL 2r

SAULT <JULLLU4. LJEkAf

SAUI STE MARJE

CALENDAR DESCRIPTION

MATHEMATICS	MTH 099-4 FORESTRY
COURSE NAME	COURSE NUMBER

PHILOSOPHY/GOALS;

The objectives of this course are to increase the student's speed, accuracy and skill in performing basic arithmetic calculations and operations on algebraic expressions, as well as the solution of practical problems involving linear equations.

A survey of plane and solid geometry will enable the student to identify a variety of figures encountered, and to determine their perimeters, areas, volumes and weights appropriately in both English and SI units.

METHOD OF ASSESSMENT (GRADING METHOD):

Periodic tests and daily assignments based on material in the course outline will be given during the semester. A final exam and a make-up test will be at the discretion of the instructor.

The final mark will be based on the results of the tests and assignments given in each of the five topics. Each topic will represent 20% of the final mark.

Grading: A+ = 90-100%
A = 80- 89%
B = 65- 79%
C = 55- 64%

A passing grade will be based on a minimum grading of 55%.
For further details read the Mathematics department's publication, "To the Mathematics Student", which is attached.

TEXTBOQK(S);

"Essentials of Mathematics"; Fifth Edition, (Person)

OBJECTIVES;

The basic objective is for the student to develop an understanding of the methods studied, knowledge of the facts presented, and an ability to use these in the solution of problems. For this purpose, exercises are assigned to reinforce concepts learned, and to show the relevance of these concepts to the student's needs in facilitating computations in the forestry course. Tests will reflect the sort of work contained in.the assignments. 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 on the following page.

TOPIC NO.	PERIODS	TOPIC DESCRIPTION	REFERENCES
1	5	Review of Basic Arithmethic Whole numbers, fractions, decimal fractions, percentages, without the use of a_ calculator.	Person Ch. 1,2,3, and 4 p. 3-74
2	15	Estimations, Dimensional Analysis and Metrication Approximate numbers and rounding off procedures - scientific notation Dimensional analysis for conversion between English and/or SI units The Metric System	 Ch. 18 P.349-354 Ch. 6 P. 84-102
3	18	Plane Geometry Definitions and theorems involving triangles and other polygons Definitions and theorems of the circle, practical problems Basic constructions if time permits	 Person Ch. 26-29 P.497-548 Heywood p.415-427
4	20	Solid Mensuration Mensuration of plane figures Mensuration of solid figures - cubes, cylinders, pyramids, cones, spheres, paraboloids - applications and formulae	 Person Ch. 30-33 p.549-584
5	14	Review of Elementary Algebra Simplification (bracket removal) Basic Operations (monomial) Special products and factoring Operations involving algebraic expressions and fractions (polynomials) Solutions and properties of linear equations Applied Word Problems Formulae Manipulation	 Person Ch. 8-13 p.123-234

TOTAL HOURS 72