

Word Processing Centre Records

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Word Processing Centre - Extension 283

SAULT STE. MARIE, ONTARIO

*Revised  
July '85  
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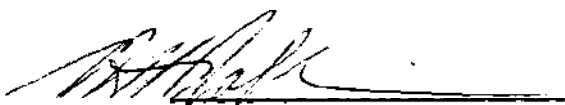
COURSE OUTLINE

Course Title: MATHEMATICS  
Code No.: MTH 113-3  
Program: FORESTRY & GEOLOGY TECHNICIANS  
Semester: ONE  
Date: JUNE, 1984  
Author: J. McGAULEY

New:

Revision:

APPROVED:

  
Chairperson

Date

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CALENDAR DESCRIPTION

MATHEMATICS

MTH 113-3

Course Name

Course Number

PHILOSOPHY/GOALS:

The objectives of this course include the review of the basic operations on algebraic expressions and the solutions to systems of linear equations.

A survey of plane and solid geometry will enable the student to determine areas, volumes and weights for a variety of forms including cylinders, cones and pyramids.

METHOD OF ASSESSMENT (GRADING METHOD):

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

TEXTBOOK(S):

"Essentials of Mathematics"; Fourth 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. Tests will reflect the sort of work contained in other 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
		Using Electronic Calculators	Ch. 24 pp. 284-288
		<u>Estimations, Dimensional Analysis and Metrication</u>	
		Approximate numbers and rounding off procedures - scientific notation	Person Ch. 32
		Dimensional analysis for conversion between English and/or SI units	pp. 500-510
		The Metric System	pp. 494-499
		<u>Plane Geometry</u>	
		Definitions and theorems involving triangles and rectangles	Person Ch. 25, 27
		Definitions and theorems of the circle, practical problems	Heywood pp. 415-427
		Basic constructions if time permits	
	23	<u>Solid Mensuration</u>	
		Mensuration of plane figures	Person
		Mensuration of solid figures, cubes, cylinders, pyramids, cones, spheres, paraboloids, applications and formulae	Ch. 28-31
	24	<u>Review of Elementary Algebra</u>	
		Simplification (bracket removal)	Person
		Basic Operations (monomial)	Ch. 6-12
		Special products and factoring	
		Operations involving algebraic expressions and fractions (polynomials)	
		Solutions and properties of linear equations	
		Applied Word Problems	
		Formulae Manipulation	
TOTAL HOURS	62		