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

COURSE OUTLINE

MATHEMATICS

Course Title:

MTH 113-3

Code No.:

FORESTRY S> GEOLOGY TECHNICIANS

Program:

ONE

Semester:

JUNE 1988

Date:

K. PELEW

Author:

New: Revision:

APPROVED: $\langle \$vUy \ Z^*-> \{\&h.\}$

CALENDAR DESCRIPTION

MATHEMATICS MTH 113-3

Course Name Course Number

PHILOSOPHY AND GOALS:

The objectives of this course include the review of the basic operations oi 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.

The final mark will be based on four unit tests, one from each topic, 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 grading of 45-55% may be allowed to complete a supplementary examination. However, only students having satisfactory attendance records will be considered for the supplementary examination.

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 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	
		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	Person Ch. 32 pp. 500-510 pp. 494-499	
		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. 24-27 pp. 415-460 Heywood pp. 415-427	
	11	Solid Mensuration Mensuration of plane figures Mensuration of solid figures, cubes, cylinders, pyramids, cones, spheres, paraboloids, applications and formulae	Person Ch. 28-31 pp.461-493	
	17	Review of Elementary Algebra Simplification (bracket removal) Basic Operations (monomial) Special products and factoring Operations involving algebraic expression and fractions (polynomials) Solutions and properties of linear equations Applied Word Problems Formulae Manipulation		

TOTAL HOURS 42 (+4 1-HOUR TESTS) = 46 PERIODS)

GRADES

Each Mathematics grade is based upon a weighted average of test scores on the following basis:

90-100%	A+							
80%-89%	A							
65%-79%	В							
55%-64%	С							
45%-54%	I,	Х,	OR I	R	(See	#5	&	6)
0% -44%	R							

The method of calculating your weighted average will be defined by your instructor. Since grades are based upon averages, it follows that good marks in some tests can compensate for a failing mark in another test. If there are extenuating circumstances, an instructor can make an exception and assign an "I" or "X" grade even if the average is below 45%.

TESTS

While regular tests will normally be scheduled and announced beforehand, there can be an unannounced test on current work at any time. Such tests, at the discretion of the instructor, can be used for up to 30% of the overall mark.

At the discretion of the instructor, there can be a final test which can be used for up to 30% of the overall mark. Anything included in the work of the semester is fair game on such a final test.

ABSENCE FROM CLASS

If you are absent from class, it is your responsibility to find out from another student what work was covered and assigned and to complete this work before the next class. Your absence indicates your acceptance of this responsibility.

TEST ABSENCE

Unexcused absence from a scheduled test will result in a zero mark. Absence may be excused on compassionate grounds such as verified illness or bereavement. On return from an excused absence, you should ask your instructor about writing a make-up test.

If your instructor uses short unannounced tests, the following will apply. Unexcused absence from such a test will result in a zero mark. If absence from such a test is excused, then, at your request, the marks for that test will be excluded from the calculation of your course average.

MAKE-UP PERIOD (IF APPLICABLE)

An "X" grade may be assigned at the end of the regular semester if your have achieved an overall average between 45%-54% and your attendance and effort on the course have been satisfactory. Satisfactory attendance and effort will include writing all the topicTests and attending at least~80% of the scheduled classes. If you are assigned an "X" grade, you may convert it" to a "C" grade by passing a make-up test on the whole course. This test will be available only at the time specified by your instructor. At the end of the regular term, it is the student's responsibility to obtain his/her results from his/her instructor and, in the event of an "X" grade, to inquire when the make-up test will be available. At the discretion of the instructor, a topic make-up test may be used instead of an overall test in special circumstances. No student will be permitted more than one such topic make-up test.

"R" AND "X" GRADES - AT THE END OF THE SEMESTER

If an "X" grade is not cleared by the specified date, it will become an "R" grade. Except for extenuating circumstances, an "X" grade in Math will not carry on into the next semester.

"R" GRADES DURING THE SEMESTER

A student with a failing grade and poor attendance (less than 80% attendance) may be given an "R" at any time during the semester.