THE SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY SAULT STE. MARIE, ON



	Sa	nuit College
	COUR	SE OUTLINE
Course Title: Applie	ed Resource Calcu	ulations
Code No. : OEL 815 S	Semester:	
Program(s) : Forestry Recreation	/ Technician, Fish	& Wildlife Technician, Parks and Outdoor
Author : The Mathematic	atics Department	
Date: Jan 2008 P	revious Outline	Dated: Aug 2005
Approved:		
	Dean	Date
Total Credits: 3	Pre	requisite(s): None
Length of Course: 3 hr	s./week Total Cred	dit Hours: 48
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written permission o	of The Sault Colleg nation, please con Trainin	ny means, in whole or in part, without the prior ge of Applied Arts and Technology is prohibited. tact the Dean of Continuing Education, Contract g and Hospitality 59-2554, Ext. 2405
I. COURSE DE	SCRIPTION:	

I.	COURSE DESCRIPTION:
	This course includes a review of fundamental algebraic processes,
***************************************	estimation, reduction and conversion of units, practical applications in plane
	and solid geometry, ratio, proportion and percent.

11.	LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:	

Upor abilit	n successful completion of this course, the student will demonstrate the y to:
1.	Determine the significant digits of a number.
	Approximate measurement calculations using accuracy and precision.
	Convert between the Metric, Imperial and the U.S. systems of measurement using dimensional analysis.
2.	Determine the area and perimeter of a circle, a triangle, a quadrilateral, and a trapezoid.
	Use the Pythagorean theorem to solve right angled triangles.
3.	Determine the surface area and volume of:
J.	Determine the surface area and volume of.
	A rectangular prism A triangular prism
	 A triangular prism A cylinder, cone, frustrum, sphere and pyramids.
4.	Add, subtract, multiply and divide algebraic expressions
	Solve linear equations
5.	Factor, multiply and divide algebraic expressions.
6.	Solve worded problems involving ratio, proportion and variation.
7.	Convert decimals into fractions and percent and vice versa.

IIL.	TOPICS:	
	1.	Estimation, Dimensional Analysis, and the Metric, Imperial and U.S. System of measurement
	2.	Plane Geometry
	3.	Solid Geometry
	4.	Algebra Review
	5.	Products and Factors
	6.	Ratio, Proportion and Variation
	7.	Percent

IV.	REQUIRED RESOURCES / TEXTS / MATERIALS :	
	1. Essentials of College Mathematics, second edition, by Cleaves and	

- Hobbs, Pearson Education. (Bundled with Student Solution Manual) ISBN 0131998056
- 2. Calculator: (Recommended) SHARP Calculator EL-531. The use of some kinds of calculators and other electronic devices may be restricted during tests.

V. EVALUATION PROCESS/GRADING SYSTEM:

6 Quizzes = 50% of final mark

1 Final Test (paper-based and proctored) 50% of final mark

Minimum passing grade at Sault College is 50%. Your final grade will be assigned as a percentage. Your home college will determine the letter grade.

VI. SPECIAL NOTES:

- 1. If you are a student with a disability please identify your needs to the tutor and/or the Centre for Students with Disabilities at your registering college.
- 2. Students, it is your responsibility to retain course outlines for possible future use to support applications for transfer of credit to other educational institutions.
- 3. Course outline amendments: The Professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.