COURSE OUTLINE: MTH044 - MATHEMATICS 044

Prepared: Heather Ferguson
Approved: Carolyn Hepburn, Dean, Indigenous Studies and Academic Upgrading

Course Code: Title	MTH044: MATHEMATICS 044
Program Number: Name	8212: LBS- LEVEL 4
Department:	ACADEMIC UPGRADING/LBS
Semesters/Terms:	18F, 19W, 19S
Course Description:	A self-directed course in which the learner, along with the direction of the professor, reviews basic mathematical skills including percents, geometry, measurement, statistics, real numbers and algebra. Although not assumed, it is entirely possible to complete the requirements for this course in less than one semester.
Total Credits:	5
Hours/Week:	5
Total Hours:	50
Prerequisites:	MTH043
Corequisites:	There are no co-requisites for this course.
Substitutes:	MTH 91
This course is a pre-requisite for:	MTH050
Essential Employability Skills (EES) addressed in this course:	EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources.
Course Evaluation:	Passing Grade: 70%, B
Books and Required Resources:	Stepping it up--Foundations for College Math: Sault College Level 4 Mathematics Publisher: Pearson ISBN: 978-1-256-01574-1

Course Outcomes and Learning Objectives:	

Course Outcome 1	Learning Objectives for Course Outcome 1
1. Upon successful completion of this course, the student will demonstrate the ability to manipulate percentages and solve problems related to percentages.	1.1 Change between decimal, fraction and percent. 1.2 Identify rate, base, and amount. 1.3 Find an unknown rate, base or amount. 1.4 Solve for unknown rate, base or amount in a percent application.
Course Outcome 2	**Learning Objectives for Course Outcome 2**
2. Upon successful	

completion of this course, the student will demonstrate the ability to use both the English (American) and Metric systems to describe distance, weight and volume.	2.1 Describe measurement in the English system (distance, weight and volume). 2.2 Describe measurement in the Metric system (distance, weight and volume). 2.3 Convert measurement units within each system.
Course Outcome 3	**Learning Objectives for Course Outcome 3**
3. Upon successful completion of this course, the student will demonstrate the ability to solve geometric problems containing lines or line segments, angle measurement and triangles.	3.1 Distinguish between a line and line segment. 3.2 Recognize parallel and perpendicular lines. 3.3 Name and measure an angle. 3.4 Find the measure of angles given related information. 3.5 Identify types of triangles. 3.6 Find the measure of the third angle of a triangle. 3.7 Identify similar triangles and their properties.
Course Outcome 4	**Learning Objectives for Course Outcome 4**
4. Upon successful completion of this course, the student will demonstrate the ability to generate basic statistical data and interpret graphs.	4.1 Analyze a series of numbers to determine mean, median and mode. 4.2 Interpret and create tables of information. 4.3 Interpret and create line and bar graphs, pie charts and pictographs.
Course Outcome 5	**Learning Objectives for Course Outcome 5**
5. Upon successful completion of this course, the student will demonstrate the ability to perform operations using real numbers.	5.1 Accurately add, subtract, multiply and divide using real numbers.
Course Outcome 6	**Learning Objectives for Course Outcome 6**
6. Upon successful completion of this course, the student will demonstrate the ability to solve problems using basic algebra.	6.1 Identify an algebraic expression. 6.2 Use algebraic symbols. 6.3 Substitute real numbers for variables in an expression. 6.4 Use order of operations to evaluate an expression. 6.5 Identify terms and coefficients. 6.6 Identify and combine like terms. 6.7 Determine whether a given number is a solution for an equation. 6.8 Solve algebraic equations.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight	Course Outcome Assessed
Quizzes and Learning Activities	20%	
Tests	80%	

Date: August 30, 2018

Please refer to the course outline addendum on the Learning Management System for further information.

SAULT COLLEGE | 443 NORTHERN AVENUE | SAULT STE. MARIE, ON P6B 4J3, CANADA | 705-759-2554