



COURSE OUTLINE

MTH044

1

Prepared: Heather Ferguson Approved: Carolyn Hepburn

Course Code: Title	MTH044: MATHEMATICS 044						
Program Number: Name	8212: LBS- LEVEL 4						
Department:	ACADEMIC UPGRADING/LBS						
Semester/Term:	17F						
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						
Substitutes:	MTH 91						
Essential Employability Skills (EES):	#3. Execute mathematical operations accurately. #4. Apply a systematic approach to solve problems. #5. Use a variety of thinking skills to anticipate and solve problems. #7. Analyze, evaluate, and apply relevant information from a variety of sources.						
Course Evaluation:	Passing Grade: 70%, B						
Evaluation Process and Grading System:	<table border="1"> <thead> <tr> <th>Evaluation Type</th> <th>Evaluation Weight</th> </tr> </thead> <tbody> <tr> <td>Quizzes and Learning Activities</td> <td>20%</td> </tr> <tr> <td>Tests</td> <td>80%</td> </tr> </tbody> </table>	Evaluation Type	Evaluation Weight	Quizzes and Learning Activities	20%	Tests	80%
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Quizzes and Learning Activities	20%						
Tests	80%						
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.						



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Upon successful completion of this course, the student will demonstrate the ability to manipulate percentages and solve problems related to percentages.

Learning Objectives 1.

- Change between decimal, fraction and percent.
- Identify rate, base, and amount.
- Find an unknown rate, base or amount.
- Solve for unknown rate, base or amount in a percent application.

Course Outcome 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.

Learning Objectives 2.

- Describe measurement in the English system (distance, weight and volume).
- Describe measurement in the Metric system (distance, weight and volume).
- Convert measurement units within each system.

Course Outcome 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.

Learning Objectives 3.

- Distinguish between a line and line segment.
- Recognize parallel and perpendicular lines.
- Name and measure an angle.
- Find the measure of angles given related information.
- Identify types of triangles.
- Find the measure of the third angle of a triangle.
- Identify similar triangles and their properties.



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Course Outcome 4.

Upon successful completion of this course, the student will demonstrate the ability to generate basic statistical data and interpret graphs.

Learning Objectives 4.

- Analyze a series of numbers to determine mean, median and mode.
- Interpret and create tables of information.
- Interpret and create line and bar graphs, pie charts and pictographs.

Course Outcome 5.

Upon successful completion of this course, the student will demonstrate the ability to perform operations using real numbers.

Learning Objectives 5.

- Accurately add, subtract, multiply and divide using real numbers.

Course Outcome 6.

Upon successful completion of this course, the student will demonstrate the ability to solve problems using basic algebra.

Learning Objectives 6.

- Identify an algebraic expression.
- Use algebraic symbols.
- Substitute real numbers for variables in an expression.
- Use order of operations to evaluate an expression.
- Identify terms and coefficients.
- Identify and combine like terms.
- Determine whether a given number is a solution for an equation.
- Solve algebraic equations.



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Date:

Thursday, August 31, 2017

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