

## COURSE OUTLINE

Revision: Marjie Vittum-Jones, April 2008

DEPARTMENT:	Academic Programs
CURRICULUM:	Developmental Mathematics
COURSE TITLE:	Arithmetic
COURSE NUMBER:	MATH 083
TYPE OF COURSE:	College Preparatory
Special Requirement Met:	None
AREA(S) OF KNOWLEDGE:	None
COURSE LENGTH:	1 quarter
CREDIT HOURS:	5
LECTURE HOURS:	55 (lecture, lab, online formats)
LAB HOURS:	0
CLASS SIZE:	25 (for Math Lab or online) or 30 (for lecture)
PREREQUISITES:	Appropriate placement scores

## COURSE DESCRIPTION:

This course is designed to teach basic mathematical skills. The course covers operations with whole numbers, fractions, decimals and their applications, percent, measures, and basic geometric shapes.

## STUDENT LEARNING OUTCOMES ADDRESSED:

1. Communication – Read and listen actively to learn and communicate.
2. Computation – Use arithmetic and other basic mathematical operations as required by program of study. Apply quantitative skills for personal, academic, and career purposes.

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STUDENT LEARNING OUTCOMES CONTINUED:

3. Critical thinking and problem solving – Think critically in evaluating information, solving problems, and making decisions.
4. Personal responsibility – Be motivated and able to continue learning and adapt to change. Value one's own skills, abilities, ideas and art. Take pride in one's work. Be aware of civic and environmental issues.
5. Technology – Select and use appropriate technological tools for personal, academic and career tasks.

GENERAL COURSE OBJECTIVES:

The student will do most or all of the following:

1. Demonstrate success on evaluations over the topics studied.
2. Be able to work with the basic arithmetic skills.
3. Work to build a foundation of math skills for subsequent mathematical classes.
4. See very basic algebra skills in proportion and percent problems.
5. Develop skills in basic measurement and geometry.
6. Develop skills in solving applications.
7. Develop regular attendance and time management/organizational skills.

TOPICAL OUTLINE:

- I. Operations on whole numbers
- II. Operations on fractions
- III. Operations on decimals
- IV. Ration and proportion
- V. Percent notation
- VI. Measurement
- VII. Geometry
- VIII. Real numbers

APPROX HOURS: 55

REVISED BY: M. Vittum-Jones and O. Shatunova  
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SLO #	Included in Course Objective Number	SSCC Student Learning Outcomes
SLO 1.1	1 - 7	Communication - Read and listen actively
SLO 1.2		Communication - Speak and write effectively
SLO 2.1	1 - 7	Computation - Use mathematical operations
SLO 2.2	1 - 7	Computation - Apply quantitative skills
SLO 2.3	1 - 7	Computation - Identify, interpret, and utilize higher level mathematical and cognitive skills
SLO 3.1		Human Relations - Use social interactive skills to work in groups effectively
SLO 3.2		Human Relations - Recognize the diversity of cultural influences and values
SLO 4.1	1 - 7	Critical Thinking and Problem Solving -
SLO 5.1	1 - 7	Technology - Select and use appropriate technological tools
SLO 6.1	1 - 7	Personal Responsibility - Be motivated and able to continue learning and adapt to change
SLO 6.2	1 - 7	Personal Responsibility - Value one's own skills, abilities, ideas and art
SLO 6.3	1 - 7	Personal Responsibility - Take pride in one's work
SLO 6.4		Personal Responsibility - Manage personal health and safety
SLO 6.5	1 - 7	Personal Responsibility - Be aware of civic and environmental issues
SLO 7.1		Information Literacy - Access and evaluate information
SLO 7.2		Information Literacy - Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society

PREPARED BY: M. Vittum-Jones and O. Shatunova  
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