

**Course Outline**

**COURSE:** MATH 404A                      **DIVISION:** 10                      **ALSO LISTED AS:**

**TERM EFFECTIVE:** Fall 2013                      **Inactive Course**

**SHORT TITLE:** SLF-PACED BASIC MTH

**LONG TITLE:** Self-Paced Basic Math

<u>Units</u>	<u>Number of Weeks</u>	<u>Type</u>	<u>Contact Hours/Week</u>	<u>Total Contact Hours</u>
1	18	Lecture:	1	18
		Lab:	.3	5.4
		Other:	0	0
		Total:	1.3	23.4

**COURSE DESCRIPTION:**

This course is a remedial, modular, self-paced course. Application and critical thinking skills are developed in each module. Module A covers operations with whole numbers, equivalent fractions, multiplying and dividing fractions. Module B covers adding and subtracting fractions, and operations with decimals. Module C covers ratio and proportion, percent, and units of measurement. Module D reviews fractions, decimals, percentages, and covers operations with integers, and working with variables. Module E covers real numbers, fractions, exponents, scientific notation, and order of operations. Module F covers expressions, polynomials, and equations. Module G covers geometric figures, perimeter and area, surface area and volume, triangles and parallelograms, and similar figures. This course has the option of a letter grade or pass/no pass. This course involves both lecture and hands-on computer assisted software. All sections are open for late registration. Math 404 A-C is the equivalent of Math 400.

**PREREQUISITES:**

**COREQUISITES:**

**CREDIT STATUS:** C - Credit - Degree Non Applicable

**GRADING MODES**

- L - Standard Letter Grade
- P - Pass/No Pass

**REPEATABILITY:** N - Course may not be repeated

**SCHEDULE TYPES:**

- 02 - Lecture and/or discussion
- 03 - Lecture/Laboratory

**STUDENT LEARNING OUTCOMES:**

1. Perform basic operations on whole numbers without calculator

ILO: 1,3,6,7,

Measure: Homework, Computer Quiz, and Exam.

2. Be able to evaluate fractions and compare the structures of fractions and whole numbers.

ILO: 2,1,7

Measure: Homework, Computer Quiz, and Exam.

3. Be able to multiply and divide fractions and apply those computations to real life word problems

ILO: 1,3,7

Measure: Homework, Computer Quiz, and Exam.

**CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS**

Inactive Course: 02/25/2013

10 Hours

Whole Numbers I including: numberline, ordering symbols, place value. adding and subtracting, multiplying and dividing, prime factorization, solving simple equations, applying those computations to real life word problems.

Homework problems from text and instructor, individual discussions with instructor.

10 Hours

Whole Numbers II including: rounding and estimating, divisibility, exponential notation, roots, order of operations, properties, generalizing a rational approach for problem solving.

Homework problems from text and instructor, individual discussions with instructor.

10 Hours

Fractions including: mixed numerals and improper fractions, multiplying and dividing fractions.

Homework problems from text and instructor, individual discussions with instructor.

2 Hours

Final Paper Test (cumulative)

Comprehensive over the entire course with evaluation of each of the areas previously encountered.

See content.

**METHODS OF INSTRUCTION:**

Self-Paced Mediated Learning: Computer Assisted Instruction with individual student-instructor interaction, group work, discussions as appropriate.

**METHODS OF EVALUATION:**

The types of writing assignments required:

None

The problem-solving assignments required:

Homework problems

Quizzes

Exams

The types of skill demonstrations required:

None

The types of objective examinations used in the course:

Matching items

Completion

Other category:

None

The basis for assigning students grades in the course:

Writing assignments: 0% - 0%

Problem-solving demonstrations: 70% - 90%

Skill demonstrations: 0% - 0%

Objective examinations: 10% - 30%

Other methods of evaluation: 0% - 0%

### **REPRESENTATIVE TEXTBOOKS:**

"Interactive Mathematics - Prealgebra", Plato Learning - Academic Systems, 2004, or other appropriate college level text.

Reading level of text: 10th grade.

### **ARTICULATION and CERTIFICATE INFORMATION**

Associate Degree:

CSU GE:

IGETC:

CSU TRANSFER:

Not Transferable

UC TRANSFER:

Not Transferable

### **SUPPLEMENTAL DATA:**

Basic Skills: B

Classification: B

Noncredit Category: Y

Cooperative Education:

Program Status: 2 Stand-alone

Special Class Status: N

CAN:

CAN Sequence:

CSU Crosswalk Course Department:

CSU Crosswalk Course Number:

Prior to College Level: D

Non Credit Enhanced Funding: N

Funding Agency Code: Y

In-Service: N

Occupational Course: E

Maximum Hours:

Minimum Hours:

Course Control Number: CCC000011212

Sports/Physical Education Course: N

Taxonomy of Program: 170100