

Course Outline

COURSE: MATH 404C **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 is a remedial, modular, self-paced course. Applications 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 equivalent to 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. Demonstrate the knowledge of ratio notation and rates applications.

ILO: 1,3,6,7,

Measure: Homework, Computer Quiz, and Exam.

2. Be able to convert percents from fractions to decimals and visa versa.

ILO: 1,2,7

Measure: Homework, Computer Quiz, and Exam.

3. Set up and solve word problems using percents.

ILO: 2,3,7

Measure: Homework, Computer Quiz, and Exam.

4. Compare and contrast Metric system and US system of Measurement, be able to use Fahrenheit and Celsius scales.

ILO: 2,3,6

Measure: Homework, Computer Quiz, and Exam.

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

Inactive Course: 02/25/2013

10 Hours

Ratio notation, equivalent ratios, rates, applications. Setting up and solving a proportion. Solving application problems.

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

15 Hours

Converting percents from fractions to decimals and visa versa. Percent increase and percent decrease. Applications using percents.

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

5 Hours

Work with the Metric System; work with US /Liberian System of Measurement, use the Fahrenheit and Celsius scales.

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

2 Hours

Paper Exam (cumulative)

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

NOTE: Students taking 404 A, B, C may take a comprehensive Final Exam to receive equivalent credit in Math 400.

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: CCC000237260
Sports/Physical Education Course: N
Taxonomy of Program: 170100