Course Outline

COURSE: MATH 404G
DIVISION: 10
ALSO LISTED AS:

TERM EFFECTIVE: Fall 2013
Inactive Course

SHORT TITLE: SLF-PACED BASIC MTH

LONG TITLE: Self-Paced Basic Math

<table>
<thead>
<tr>
<th>Units</th>
<th>Number of Weeks</th>
<th>Type</th>
<th>Contact Hours/Week</th>
<th>Total Contact Hours</th>
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<tr>
<td>1</td>
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<td>Lecture</td>
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<td>18</td>
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<td></td>
<td></td>
<td>Lab</td>
<td>.3</td>
<td>5.4</td>
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<td>Other</td>
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<tr>
<td></td>
<td></td>
<td>Total</td>
<td>1.3</td>
<td>23.4</td>
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COURSE DESCRIPTION:

This course 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.

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. Be able to identify geometric figures: point, line, segment, ray, polygons.
   ILO: 2,3,6,7,
   Measure: Homework, Computer Quiz, and Exam.
2. Be able to classify angles and relationships between angles
   ILO: 1,2,7
   Measure: Homework, Computer Quiz, and Exam.
3. Demonstrate the knowledge of the definition of the Perimeter and the Area and be able to evaluate perimeters and areas of different geometric shapes: polygons, circles, and composite figures.
   ILO: 2,1,7
   Measure: Homework, Computer Quiz, and Exam.
4. Use and apply the knowledge of triangles to determine the angle sum and congruence, and to identify similar triangles.
   ILO: 2,3,7
   Measure: Homework, Computer Quiz, and Exam.
   ILO: 1,2,6,7
   Measure: Homework, Computer Quiz, and Exam.

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS
Inactive Course: 02/25/2013
10 Hours
Geometric Figures: point, line, segment, ray, polygons; measuring and classifying angles; relationships between angles. Perimeter and Area: polygons, circles, and composite figures.
Homework problems from text and instructor, individual discussions with instructor.
10 Hours
Surface Area and Volume: solids, rectangular prism, cylinder, sphere, composite figures. Triangles: angle sum, congruence, isosceles and equilateral, right triangles, Pythagorean theorem.
Homework problems from text and instructor, individual discussions with instructor.
5 Hours
Parallel lines and transversals; properties of parallelograms; similar polygons and triangles.
Homework problems from text and instructor, individual discussions with instructor.
5 Hours
US/Liberian System of Measurement; Metric System; converting between US and Metric System; Fahrenheit and Celsius scales.
2 Hours
Paper Exam (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: C
Non Credit Enhanced Funding: N
Funding Agency Code: Y
In-Service: N
Occupational Course: E
Maximum Hours:
Minimum Hours:
Course Control Number: CCC000213287
Sports/Physical Education Course: N
Taxonomy of Program: 170100