Course Outline

COURSE: MATH 404D  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>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>18</td>
<td>Lecture: 1</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lab: .3</td>
<td>5.4</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Other: 0</td>
<td>0</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Total: 1.3</td>
<td>23.4</td>
<td></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. Math 404 D-F is the equivalent of Math 402.

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 problem-solving ability in a wide range of topics: equations and their applications, algebra and expressions of integers.
ILO: 1,3,6,7,
Measure: Homework, Computer Quiz, and Exam.
2. Be able to perform all the operations with positive and negative numbers.
ILO: 1,2,7
Measure: Homework, Computer Quiz, and Exam.
3. Set up and solve word problems using negative numbers.
ILO: 2,3,7
Measure: Homework, Computer Quiz, and Exam.

CONTENT, STUDENT PERFORMANCE OBJECTIVES, OUT-OF-CLASS ASSIGNMENTS
Inactive Course: 02/25/2013
5 Hours
Review of fractions, decimals, percentages
Homework problems from text and instructor, individual discussions with instructor.
5 Hours
Signed Numbers: ordering, absolute value, adding, applications.
Homework problems from text and instructor, individual discussions with instructor.
5 Hours
Signed Numbers: subtracting, solving simple equations, applications
Homework problems from text and instructor, individual discussions with instructor.
10 Hours
Signed Numbers: multiplying and dividing, solving simple equations, applications.
Order of operations, properties of real numbers.
Homework problems from text and instructor.
5 Hours
Signed Numbers: combining similar terms, applications
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.
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: CCC000081380
Sports/Physical Education Course: N
Taxonomy of Program: 170100