Syllabus  
Math 099  
Developmental Mathematics  
Spring 2005

Instructor: Julie DePree, Ph.D.  
Office: Academic Building Room 142  
Office Hours: M 2:00-2:30, T&TH 12:30-2:30  
W 1:30-2:30 & 4:30-5:30  
T 10:00-10:30 or by appointment  
Phone Number: 925-8607  
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I. Course Description:

Math 099: Developmental Mathematics (4) Developmental Mathematics is a pre-college mathematics course with emphasis on problem solving using the basic operations, fractions, decimals, percents, ratios, and measurements.

II. Textbook:

Calculator  
MyMathLab Computer Package, Prentice Hall

III. Attendance Policy:

Students are expected to attend regularly and to be on time. Four absences are considered to be excessive and the student may be dropped from the class at the discretion of the instructor. **No late work will be accepted.** If you miss a class, you will receive a zero for the project that is done that day. However, I will drop two zeros on class projects before I compute your final grade.

IV. Grading Policy:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90 - 100%</td>
</tr>
<tr>
<td>B</td>
<td>80 - 89%</td>
</tr>
<tr>
<td>C</td>
<td>70 - 79%</td>
</tr>
<tr>
<td>CR</td>
<td>Credit 70 - 100%</td>
</tr>
<tr>
<td>NC</td>
<td>No Credit  Less than 70%</td>
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Exams 50%  
Group Projects and HW 10%  
Computer Lab 20%  
Final 20%

* Students with special needs please see me as soon as possible to ensure that those needs are met.
V. Study Suggestions:

1. Read each section before doing the homework.
2. Check your answers in the back of the book; rework the ones that you missed. Ask in class about the problems you are unable to solve.
3. Explain how you do problems to other members in the class.
4. Make a strong effort to do all the homework. The more homework you do, the easier the problems will become.
5. Get a tutor at the Student Enrichment Center or see the instructor when you need help.
6. Form a study group with your classmates; trade telephone numbers.
7. Make a study sheet for each exam.
8. Complete all computer assignments.

VI. Support Services:

The Valencia Campus Library provides a quiet atmosphere for study and is an excellent resource for supplementary materials. Audio tapes and video tapes are available for student use through both the library and the Student Enrichment Center. The Student Enrichment Center offers tutorial and individualized instruction at no cost to the student.

VII. Major Course Objectives:

1. The student will add, subtract, multiply, and divide whole numbers, fractions, decimals, and integers.
2. The student will convert between decimal, fractional, and percent notation.
3. The student will solve problems using whole number, fraction, decimal, and percent skills.
4. The student will calculate averages, medians, and square roots.
5. The student will solve algebraic equations in one unknown using the distributive law, the addition and multiplication principles.
6. The student will use the American system to measure length, to find the perimeter and the area of plane geometric figures, and to convert from one unit to another.
7. The student will simplify exponential expressions.

The major objectives of the course will be objectives one through five. Objectives six and seven will be introduced, but not emphasized, if time permits.
IX. Tentative Outline

<table>
<thead>
<tr>
<th>Week</th>
<th>Content</th>
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</table>
| 1    | 1/17-1/20  
Orientation, Lesson 1  
Group Project: Handshake Problem  
**Martin Luther King Holiday Monday, January 17**  
Computer Assignments: 1.3, 1.4 |
| 2    | 1/24-1/27  
Lessons 2 and 3  
Group Project: Grocery Receipts and Shopping Spree  
Birth Date Problem  
Computer Assignments: 1.5, 1.9  
**1/28 Last day to add courses or change sections** |
| 3    | 1/31-2/3  
Lessons 4, 5 and 6  
Group Project: Folding Paper Triangle Exploration  
Group Project: Algebra Tiles  
Computer Assignments: 9.1, 8.3 (optional) 2.1 |
| 4    | 2/7-2/10  
Integers  
Computer Assignments: 2.2, 2.3, 2.4  
**2/11 Last day to change grading options** |
| 5    | 2/14-2/17  
**EXAM 1**  
Lessons 7 and 8  
Group Project: Geoboards  
Group Project: Carpet Room and Square Yard Activity in Hallway  
Computer Assignments: 1.6, 9.4 |
| 6    | 2/21-2/24  
Lessons 9, 10 and 11  
Group Project: 24 Game  
Group Project: Pythagorean Theorem  
Computer Assignments: 1.7, 1.8, 2.5  
**2/25 Last day to drop a course without a grade** |
| 7    | 2/28-3/3  
Lessons 12, 13 and 14  
Group Project: Exploring Pi  
Group Project: Pizza Problem  
Computer Assignments: 5.3, 5.8 |
| 8    | 3/7-3/10  
**EXAM 2** |
Lesson 15
Group Project: Pattern Blocks
Computer Assignments: 4.1, 4.2

**Spring Break 3/13-3/20**

9  3/21-3/24  
Lesson 16 and 17
Group Project: Fraction Kit
Computer Assignments: 4.4, 4.5, 4.3

10  3/28-3/31  
Lessons 18
Group Project: Recipes and Pizza
Computer Assignments: 5.1, 5.2, 5.4

11  4/4-4/7  
Lesson 19
**EXAM 3**
Computer Assignments: 5.6, 4.6, 4.8

12  4/11-4/14  
Lessons 20 and 21
Group Project: Shadows and Recipes
Group Project: Shopping Sales
Computer Assignments: 6.1, 6.2, 6.3, 6.4, 6.5

13  4/18-4/21  
Lessons 22 and 23
Group Project: Out to Lunch
Computer Assignments: 7.1, 7.2, 7.3, 7.4

14  4/25-4/28  
Lessons 24
**EXAM 4**
Computer Assignments: 7.5, 7.6, (8.4 optional)

15  5/2-5/5  
Review for Final

16  5/9-5/12  
**FINAL EXAM**