Math115 (M-Th)  Elementary Algebra  Instructor: E. Sharnazyan  Spring 2008

Course:  Elementary Algebra  5.0 Units
Ticket Number: 0142  M-Th  9:05 – 10:20 a.m.  Math Ctr.

Office Hours:  Tuesday 10:30 to 11:30 am  Office: INST 1011
Email:  SharnazyanEliz@aol.com  Phone: (818) 364-7600 x7860

Text:  Elementary Algebra  Author: Jerome E. Kaufmann
Edition: 8th

Important Dates:
Last day to drop without a "W" -  March 3, 2008
Last day to drop with a "W" -  May 5, 2008
Final Exam

Course Objectives:
Some basic concepts of arithmetic and algebra; real numbers; equations, inequalities, and problem solving; formulas and problem solving; exponents and polynomials; factoring, solving equations, and problem solving; algebraic fractions; coordinate geometry and linear systems; roots and radicals; quadratic equations; additional topics.

Homework, Quizzes, and Exams:
Homework from the textbook will be assigned and reviewed in class. Homework will be collected and graded. Since the exams will closely resemble homework exercises, success in the course strongly depends on diligently completing all assignments in a timely fashion. I cannot stress this last point enough! Students must complete all assignments on time and come to class prepared. We will have 4 in class closed-book and no calculator exams. The exams may cover any material discussed in class up to and in some cases including material covered the day before. All exams should be considered cumulative. We will also have 10 pre-announced quizzes. No make-up exams will be given. Successful students should plan to spend at least two hours of study outside of class for each hour of discussion. This translates into a minimum of ten additional hours per week.

Read the textbook:
I strongly encourage you to read the text carefully. The lectures are designed as a supplement to and not an alternative for the textbook. Students are expected to master all topics in the textbook unless otherwise indicated and regardless of whether they are mentioned in the lecture.

Class comportment:
All students are expected to arrive on time. Late arrivals are disruptive to both the lecturer and students. Students must turn off all pagers and cell phones while in class. Students are encouraged to ask questions and make comments on the lecture material. This should be done in a courteous manner by raising one’s hand and being recognized.
Side conversations between students that disrupt the flow of the lecture will not be tolerated. It is the student’s responsibility to manage his or her academic workload. Should a student decide to stop attending class it is their responsibility to drop the class. All students appearing on the grade roster will receive a grade regardless of whether they are attending classes or not.

**Grading:**
Your final grade is based on several factors; these factors and their percentage contribution to your grade are as follows. **NO MAKE-UP**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 exams</td>
<td>40%</td>
<td>90% - 100%</td>
<td>A</td>
</tr>
<tr>
<td>Quizzes</td>
<td>20%</td>
<td>80% - 89%</td>
<td>B</td>
</tr>
<tr>
<td>Homework</td>
<td>10%</td>
<td>70% - 79%</td>
<td>C</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
<td>69% - 60%</td>
<td>D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0% - 59%</td>
<td>F</td>
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**Course Organization:**
The course will follow the tentative schedule as closely as possible.

**Approximate Timetable (M-Th)**
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Feb 4 / Feb 7</td>
<td>1.1 to 1.3</td>
<td>1.4 to 1.5</td>
<td>2.1 to 2.3</td>
<td>2.4 to 2.5</td>
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<tr>
<td>2</td>
<td>Feb 11 / Feb 14</td>
<td>Q1 (1.1 to 2.5) 3.1</td>
<td>3.2</td>
<td>3.3</td>
<td>3.4</td>
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<tr>
<td>3</td>
<td>Feb 18 / Feb 21</td>
<td>NO CLASS</td>
<td>3.5</td>
<td>Q2 (3.1 to 3.5) 4.1</td>
<td>4.2</td>
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<tr>
<td>4</td>
<td>Feb 25 / Feb 28</td>
<td>4.3</td>
<td>4.4</td>
<td>Q3 (4.1 to 4.4) 4.5</td>
<td>Test 1 (1.1 to 4.5)</td>
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<tr>
<td>5</td>
<td>Mar 3 / Mar 6</td>
<td>5.1</td>
<td>5.2</td>
<td>5.3</td>
<td>5.4</td>
</tr>
<tr>
<td>6</td>
<td>Mar 10 / Mar 13</td>
<td>5.5</td>
<td>5.6</td>
<td>Q4 (5.1 to 5.6) 6.1</td>
<td>6.2</td>
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<td>7</td>
<td>Mar 17 / Mar 20</td>
<td>6.3</td>
<td>6.4</td>
<td>Q5 (6.1 to 6.4) 6.5</td>
<td>Test 2 (5.1 to 6.5)</td>
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<td>8</td>
<td>Mar 24 / Mar 27</td>
<td>NO CLASS</td>
<td>NO CLASS</td>
<td>NO CLASS</td>
<td>NO CLASS</td>
</tr>
<tr>
<td>9</td>
<td>Mar 31 / Apr 3</td>
<td>7.1</td>
<td>7.2</td>
<td>7.3</td>
<td>7.4</td>
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<tr>
<td>10</td>
<td>Apr 7 / Apr 10</td>
<td>7.5</td>
<td>Q6 (7.1 to 7.5) 7.6</td>
<td>8.1</td>
<td>8.27</td>
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<tr>
<td>11</td>
<td>Apr 14 / Apr 17</td>
<td>8.3</td>
<td>Q7 (8.1 to 8.3) 8.4</td>
<td>8.5</td>
<td>8.6</td>
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<tr>
<td>12</td>
<td>Apr 21 / Apr 24</td>
<td>8.7</td>
<td>Q8 (8.4 to 8.7) 8.4</td>
<td>Review Ch 8</td>
<td>9.1</td>
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<tr>
<td>13</td>
<td>Apr 28 / May 1</td>
<td>9.2</td>
<td>9.3</td>
<td>9.4</td>
<td>9.5</td>
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<tr>
<td>14</td>
<td>May 5 / May 8</td>
<td>Q9 (9.1 to 9.5) 10.1</td>
<td>10.2</td>
<td>10.3</td>
<td>10.4</td>
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<tr>
<td>15</td>
<td>May 12 / May 15</td>
<td>10.5</td>
<td>Q10 (10.1 to 10.5) 11.7</td>
<td>Review Ch9 &amp; 10</td>
<td>Test 4 (9.1 to 10.4)</td>
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<tr>
<td>16</td>
<td>May 19 / May 22</td>
<td>Review Ch 1 to 4</td>
<td>Review Ch 5 to 6</td>
<td>Review Ch 7 to 8</td>
<td>Review Ch 9 to 11</td>
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</tbody>
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Final exam will be announced.

**MATH 115 Elementary Algebra**
### Homework Assignments

EOO -every other odds (ex. 1,5,9...)
ODDS  (ex. 1,3,5...)

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Homework</th>
</tr>
</thead>
</table>
| Chapter I | 1.1 1-67 EOO  
1.2 1-87 EOO  
1.3 1-127 EOO  
1.4 1-93 EOO  
1.5 1-81 EOO |
| Chapter II | 2.1 1-81 EOO  
2.2 1-105 EOO  
2.3 1-87 EOO  
2.4 1-101 EOO  
2.5 1-71 EOO |
| Chapter III | 3.1 1-71 EOO  
3.2 1-67 EOO  
3.3 1-57 EOO  
3.4 1-85 EOO  
3.5 1-59 EOO |
| Chapter IV | 4.1 1-71 EOO  
4.2 1-45 ODDS  
4.3 1-69 EOO  
4.4 1-39 ODDS  
4.5 1-41 ODDS |
| Chapter V | 5.1 1-77 EOO  
5.2 1-83 EOO  
5.3 1-121 EOO  
5.4 1-49 ODDS  
5.5 1-39 ODDS  
5.6 1-121 EOO |
| Chapter VI | 6.1 1-91 EOO  
6.2 1-75 EOO  
6.3 1-67 EOO  
6.4 1-79 EOO  
6.5 1-87 EOO |
| Chapter VII | 7.1 1-59 ODDS  
7.2 1-45 ODDS  
7.3 1-79 EOO  
7.4 1-71 EOO  
7.5 1-51 EOO  
7.6 1-49 EOO |
| Chapter VIII | 8.1 1-49 ODDS  
8.2 1-55 ODDS  
8.3 1-73 EOO  
8.4 1-43 ODDS  
8.5 1-29 ODDS  
8.6 1-39 ODDS  
8.7 1-61 EOO |
| Chapter IX | 9.1 1-87 EOO  
9.2 1-65 EOO  
9.3 1-71 EOO  
9.4 1-69 EOO  
9.5 1-43 ODDS |
| Chapter X | 10.1 1-75 EOO  
10.2 1-41 ODDS  
10.3 1-47 ODDS  
10.4 1-45 ODDS  
10.5 1-31 ODDS |
| Chapter XI | 11.7 1-43 ODDS |
Math 115
Learning Outcomes

1) Categorize numbers
2) Manipulate numbers using basic numerical operations
3) Evaluate arithmetic expressions containing exponents
4) Solve first-degree equations and inequalities
5) Solve formulas for a given variable
6) Recognize and solve proportion problems; analyze and solve word problems
7) Simplify, add, subtract, multiply and divide polynomials
8) Simplify expressions containing negative exponents
9) Factor polynomials using appropriate methods
10) Apply factoring techniques to solve second-degree equations
11) Factor polynomials using appropriate methods
12) Solve equations and word problems using factoring
13) Manipulate and simplify algebraic
14) Solve equations containing algebraic fractions
15) Graph equations in two variables
16) Determine equations of lines
17) Solve systems of equations
18) Determine roots; simplify, add, subtract, multiply, and divide radicals
19) Solve equations containing radicals
20) Solve quadratic equations using completing the square and the quadratic formula
21) Define and evaluate relations and functions