MATH 112 – INTERMEDIATE ALGEBRA
FALL SEMESTER 2004

COURSE DESCRIPTION

Solution of linear and absolute value equations and linear inequalities; integer and rational exponents, simplification of radicals; slope and graphing linear equations; systems of linear equations; solution of quadratic equations by factoring, completing the square and using the quadratic formula; introduction to functions; and word problems related to the everyday world.

CLASS SCHEDULE

Math 112 AB will meet from 9:05 a.m.-10:50 a.m. on Mon. & Wed.
Math 112 DF2 will meet from 10:35 a.m.-12:20 p.m. on Mon. & Wed.
Math 112 KL will meet from 2:00 p.m. - 3:45 p.m. on Tues. & Thurs.

These Math classes will end the week of August 30th.

TEXTBOOK

Title: Intermediate Algebra, 7th Edition
Author: Charles P. McKeague
Publisher: Thomson Brooks / Cole

TEACHER

Peter Remus

Office – Room 702 A    email address – premus@ccc.edu
Office Phone – 312-553-5934    Math Dept. Ph. – 312-553-5935
Office Hours – 6 a.m. - 9 a.m., and 11a.m. – 2 p.m. on Mon. & Wed.
                    11 a.m. – 2 p.m. on Tues. & Thurs.
ATTENDANCE

Since it is a requirement of the College that attendance must be taken every class session, it is your responsibility to be here, on time, for every class session.

TARDINESS

There is no excuse good enough for constantly being late. Change your schedule so you arrive on time for every class session.

ABSENCE

Occasionally you may be absent. Exchange phone numbers with a classmate so you can get the lecture notes that you missed.

FOOD

No food (cookies, cake, chips, donuts, etc.) is to be brought and eaten in the classroom. However, non-alcoholic drinks are allowed.

DISRUPTING THE CLASS

During my lectures and our discussions I expect your complete attention. Please ask questions whenever you do not understand what I am trying to explain, show, or tell you. However, if you constantly talk with your classmates and cause a disruption I will expect you, or ask you, to leave the class so that the other students can concentrate on their Math.

Furthermore, if you have a cell phone or beeper and you bring it to class-please silence the device. If you should need to use your cell phone during class time due to an emergency, leave the classroom to take care of this matter and then return.

CHILDREN IN CLASS

Do not bring your children to class. It is disrupting to not only you but also your classmates and me.
ATTITUDE

In my 56 years of life and 35 years of college teaching experience I have found that the key to success in MATH and LIFE is to have a good POSITIVE ATTITUDE. Remember, to a great extent it is

“YOUR ATTITUDE THAT DETERMINES YOUR SUCCESS.”

CLASS PARTICIPATION

In a college setting your participation in classroom activities is encouraged, so please share your thoughts and ideas with all of us on the principles being discussed. Also with your input the class will be more educational and enjoyable, not only for you, but for everyone in the class.

MATH TUTORS

Math tutors are available to help you in your quest for math supremacy. These good people are to be found in Room 702, the Math Department office. There is no charge to you nor is an appointment required to see them. I will announce the available tutoring times once their schedule is finalized. So if you have in the past found Math to be challenging please see them as soon as possible.

COURSE OBJECTIVES

Upon your successful completion of this course (final grade of C or higher) you should be able to do the following:

1) Solve a linear and/or an absolute value equation.
2) Solve a liner inequality.
3) Be able to simplify a radical expression.
4) Know how to find the slope of a line.
5) Know how to find the slope of two parallel lines.
6) Know how to find the slope of two perpendicular lines.
7) Know how to graph an equation in two variables.
8) Know how to solve a system of equations in two variables.
9) Know how to solve a quadratic equation using the following techniques: factoring, completing the square, extract the root, and the quadratic formula.
10) Understand the concept of functions and the relationship between the domain and the range.
11) Solve word problems encountered in everyday life which includes application of the concepts as indicated in parts 1-10 above.

**TYPICAL CLASS SESSION**

A typical class session will consist of the following:

1) Homework review
2) Class quiz
3) Lecture-discussion on new concepts
4) Classwork
5) Homework Assignment

**HOMEWORK**

Usually, homework is assigned at the end of every class session and it will be due at the next class meeting. A copy of the classwork/homework schedule will be handed out to you. Please complete these assignments as indicated unless told otherwise. We will review the previously assigned homework questions at the beginning of the next class period if you feel that a problem or problems need further examination.

Please note that ALL HOMEWORK ASSIGNMENTS must have your name, class and class section written in the upper right hand corner of your paper. Failure to do so will result in you not receiving credit for the completed assignment. The completed homework assignments will account for 5% of your final grade.
**CLASS QUIZ**

After the homework review we will be taking a two question quiz on the previous lesson that I lectured on and what we just covered in the homework review. Each quiz is worth 5 points toward your final total score (a total of 100 points for the semester). These class quizzes will account for 10% of your final grade.

**EXAMINATIONS**

There will be four examinations in this course. Each one is worth 200 points (typically, 10 problems, each one worth 20 points) toward your final total score. These four tests will account for 80% of your final grade. All tests will be in class tests and they will be given approximately every 4 weeks. We will review the material you will be tested on the class session prior to the test date, if time permits.

**WRITING ASSIGNMENT**

There will be a writing assignment in this class. A short 2-3 page paper will be assigned to you after the midterm exam (the week of October 25). This assignment will be due the week of November 22, 2004 and will be worth 50 points toward your final score. It will account for 5% of your final grade. The topic of the paper will be “**How mathematics will relate to my future occupation.**”

**EXTRA CREDIT WORK**

There will be additional points you can earn by doing and successfully answering the extra credit problems. These problems will be given throughout the course and can add a maximum of 25 points to your final points total if you answer them correctly.
**FINAL GRADE**

Your final grade in this course will be determined by the TOTAL POINTS you’ve earned in the course by adding the following:

a) Your test scores (maximum of 800 points).
b) Your quiz scores (maximum of 100 points).
c) Homework assignments (maximum of 50 points).
d) Your written paper (maximum of 50 points).
e) Any extra credit work (maximum of 25 points).

**GRADING SCALE**

Thusly, your final grade in this course is based on the following grading scale:

<table>
<thead>
<tr>
<th>TOTAL POINTS</th>
<th>FINAL GRADE</th>
<th>NEXT MATH CLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>900-1000 (90%)</td>
<td>A</td>
<td>118, 121, 125, or 140</td>
</tr>
<tr>
<td>800-899 (80%)</td>
<td>B</td>
<td>118, 121, 125, or 140</td>
</tr>
<tr>
<td>700-799 (70%)</td>
<td>C</td>
<td>118, 121, 125, or 140</td>
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<tr>
<td>600-699</td>
<td>D</td>
<td>repeat 112</td>
</tr>
<tr>
<td>0-599</td>
<td>F</td>
<td>repeat 112</td>
</tr>
</tbody>
</table>

**THE LAST WORD**

To earn a degree from Harold Washington College you will need to take at least one additional Math course beyond Math 112 after you successfully complete this course with a final grade of “C” or higher. With this in mind, it is my intention to give 100% in my efforts to help you to not only pass this course, but also to help you see the value of being “mathematically literate.”

I EXPECT NO LESS THAN 100% FROM YOU