**MA104 COLLEGE ALGEBRA WITH APPLICATIONS IN THE SCIENCES AND TECHNOLOGIES**

Fall 2004 11:00-11:50 p.m. MWRF in WS 3801

**INSTRUCTOR**: Dr. Donald Zalewski NSF 1111 Phone: 227-1595
dzalewsk@nmu.edu (Note: There is no "i" in my address.)

**PREREQUISITE**: A C- or better in MA100 or satisfactory score on the Math Placement Exam. If you have any questions about your qualifications for the course, see me within the first two days of class.

**OFFICE HOURS**: 8:15-8:45 MWRF 10:00-10:45 MWRF 2:00-2:45 MWRF
Other times by appointment

**MATERIALS NEEDED**:

1. Textbook: APPLIED COLLEGE ALGEBRA – A Graphing Approach, Saunders College Publishing, 2000. There is also a Student Resource Manual that is optional.
2. A graphing calculator or laptop. All laptops should be equipped with **TI-Interactive** which is a program that simulates the TI-83. If you plan to buy a graphing calculator, the TI-83, TI-86, or TI-89 will serve well. If you are going to take MA 171, then the TI-89 or TI-86 are the best choices.
3. A notebook for notes and homework. Some quizzes will require you to use your homework, so keep it well organized.

**GOALS**

Students who complete the mathematics courses should be able to demonstrate a basic understanding of mathematical logic; use mathematics to solve scientific or mathematical problems in college classes; express relationships in the symbolic language of mathematics; and appreciate the role of probability and statistics in analyzing natural phenomena.

**ATTENDANCE**:

1. Attendance is expected and will be taken daily. You are responsible for all notes, homework, quizzes, tests and announcements ***even if you are absent.*** Check with **WEBCT** if you are absent and need to find out what the assignments are and if any tests or quizzes are scheduled.

2. If you are absent three or less times and have an average of at least 80%, you may ask to skip the final exam and receive the grade that you are earning at that time.

3. Bring your book, homework, and notebook with you daily. You will need your graphing calculator/laptop quite often, and are encouraged to have it handy. Some units will require you to have them with you in class. Be sure to bring them with you on quiz and test days.

## DISABILITY SERVICES

If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office at 2001 C. B. Hedgcock (227-1700; TTY 227-1543). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state and University guidelines.

**EVALUATION**: Your grade for the course is determined by adding up all the points you earned on the quizzes and tests, and then comparing that total to the total points possible. A = 93-100%; A- = 90-92%, B+ = 87-89%; B = 83-86%; B- = 80-82%; C+ = 77-79%; C = 73-76%; C- = 70-72%, etc. By department rules, you need a grade of C- or better to proceed to the next math course.

**MA 104 TENTATIVE SCHEDULE of Exams and Chapter/sections**. Quizzes will be given between exams. Some will be unannounced pop quizzes worth up to 10 points. (They cannot be made up.) The quizzes worth more points will be announced in class.

Review Chapter: Sections R.1 - R.7
Chapter 1: Sections 1.1 – 1.6
Chapter 2: Sections 2.1 – 2.5
Chapter 3: Sections 3.1 – 3.7
Chapter 4: Sections 4.1 – 4.3
Chapter 5: Sections 5.1 – 5.4
Chapter 6: Sections 6.1 – 6.6
Chapter 7: Sections 7.1 – 7.4
Chapter X: A unit of trigonometry will be taught using handouts and websites.

**FINAL EXAM:** Wednesday, December 15, 10:00-11:50 a.m.

**NOTES AND SUGGESTIONS**:

1. The exact dates of tests and regular quizzes will be announced in class. Pop quizzes are unannounced. They sometimes consist of problems from the homework.
   **WARNING**: A regularly announced test or quiz can only be made up if arrangements are made with the instructor <u>in</u> <u>advance</u>! No pop quiz can be made up.

2. Daily assignments usually consist of selected exercises following the section that was discussed in class. Do all the homework that is assigned -- and a little more if you need more practice.
   Each homework assignment should take about an hour to finish, but it may take as long as two hours to complete.

3. Be prepared to ask questions about homework at the beginning of each class. If you need extra help, come to my office or go to the tutoring lab in WS 3810.

4. To review for tests, it is recommended that you:
   a) Read the Chapter Highlights at the end of each chapter; learn all the terms, symbols and rules.
   b) Do the Chapter Review Exercises and Chapter Test.
   c) Go over the assignments from each section.

5. If you must be absent, go to WEB-CT and get the assignments and see if any tests or quizzes are scheduled. Arrange to get notes and handouts from a classmate.

6. *MA104 covers a lot of material in one semester. As is the case with most mathematics classes, the content is sequential in that you must master the material in one chapter in order to be able to learn the material in the following chapters. Thus, it is imperative that you keep up with the assignments and to get help if you are struggling. If you do poorly on a quiz or test, I will write a note to "See me" so that we can identify the reasons for your poor performance and perhaps make some adjustments to improve your future scores. If you have not been attending classes or doing your assignments, I may recommend that you drop the class.*