instructor: Pat Jennings
office: 3803 West Science
office phone: 228-2808 (leave message)
email: pjenning@nmu.edu
Note: the best way to contact me is by email. Be sure to leave your phone number so that I can call you back

office hours: Mon Weds 6:40 to 7:00 in the classroom
Other times by appointment

course content: Continued development of students' abilities to manipulate mathematical statements and solve problems. A study of functions, graphing, equation solving techniques, exponents and logarithms, systems of equations, and elementary trigonometry. Emphasis is on applications in the applied sciences.

This course is designed for students who need college algebra but do not intend to take calculus. This course applies to the Division III Liberal Studies requirement.

You can purchase this text at the bookstore or online.

There is also an optional student manual that you may purchase, but it is not required.

Tutoring: All Campus Tutoring (ACT) will offer MA104 tutoring on a walk-in basis at 111H LRC, by Starbucks.

Computer: An NMU email account is required. I will be sending you emails periodically throughout the semester so you are responsible for reading your email. I will show you how to set up Microsoft Outlook in class. A graphing calculator is needed for this class. I suggest a Texas Instruments TI-83 or similar calculator. I will show you examples using a TI-83 in class. Keep in mind, however, that your calculator
may have slightly different functions. If you are not sure how to use
them, be sure to ask me after class.

**Grading:** Grades will be weighted according to the following:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter Tests</td>
<td>70%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
</tbody>
</table>

The final grade will be a weighted average of the above corresponding
to the following scale:

- **A**: 93 – 100
- **A-**: 90 – 92.9
- **B+**: 87 – 89.9
- **B**: 83 – 86.9
- **B-**: 80 – 82.9
- **C+**: 77 – 79.9
- **C**: 73 – 76.9
- **C-**: 70 – 72.9
- **D+**: 67 – 69.9
- **D**: 60 – 66.9
- **F**: less than 60

There will be no other grades given and no “extra credit” assignments
are available. Incompletes will be pursuant to University policy.

The final exam is scheduled for this course is:

Monday April 27, 2015  7 – 9 pm

*You must take the final exam during the class period that you are
enrolled in unless you make prior arrangements with your instructor.*

**Prerequisites:** MA 100 or satisfactory score on the math placement exam. A graphing
calculator or equivalent computer software is required.

**Chapter Tests:** All chapter tests will be given during class and you will have an hour
to take each test. There will be a minimum of 5 chapter tests, but there
may be more, depending on how the class goes. If it turns out that
there are more than 5 tests, I will drop the lowest test score.

All chapter tests will be closed book and open notes. If you use notes,
they must be your own. You may only use a calculator and any
documents that I send you by email. You may not use any other
online resources.
Quizzes: Quizzes will be given once or twice a week, unannounced, usually spontaneous, and cannot be made up under any circumstances. The easiest way to pass a quiz is to show up in class. If you miss only one or two quizzes, it will not significantly affect your grade, but, missing most of them will. You are encouraged to work with your classmates on the quizzes and I will come around and help you.

Homework: You should work out a substantial number of exercises from the text that pertain to the sections that we are going over. However, textbook exercises will not be collected or graded. I will let you know which section of the text is covered in class, but I will not assign exercises from the text.

If you want me to go over a particular textbook exercise in class, please email me the page, section and exercise number so that I have a chance to review it. I will probably not go over any homework problem unless you email it to me first!

Study Habits: As a general rule, you should spend two hours on homework for every hour that you are in class. (This applies for all courses that you take in college) Since this is a 4 credit hour course, you should spend at least 8 hours per week on reading and homework assignments. If you have had an especially hard time with mathematics in the past, plan on spending at least 12 hours per week for this course.

Budget your time wisely! There is nothing worse than cramming for a test on Friday night when your friends are out having a good time. I recommend that you set a schedule for this course (as well as your other courses) and stick to it. Plan your schedule now.

Attendance: Other than the quiz grades, I will not be taking attendance for this course. Since you are making a financial investment in this course, it is to your advantage to put your best effort into learning the material that is presented by attending class regularly, keeping up with the homework, and asking for help if you do not understand something. If you are not able to attend class due to work commitments, child care, or some other reason, let me know and we can work out some reasonable arrangement.

Academic Honesty: You must do all of your own work. If you cheat, you will not learn the material, and if you get away with passing this course by cheating, you will have a very difficult and frustrating time in your later courses. Also, you will be constantly looking over your shoulder worried about getting caught, and that, in itself is not worth it. If you do get caught cheating on a test or other assignment, you will get an automatic F for
this course, and you could be subject to other sanctions. This includes having someone else take your online test or plagiarizing the project assignment. The bottom line is, if you cheat, you are really cheating yourself out of time, money, and, possibly, your future career.

Disabilities: If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Dean of Students Office at 2001 C. B. Hedgcock Building (227-1700). 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.

Course Objectives: Continued development of students’ abilities to manipulate mathematical statements and solve problems. A study of functions, graphing, equation solving techniques, exponents and logarithms, systems of equations, and elementary trigonometry. Emphasis is on applications in the applied sciences.

Assessment of these course objectives will be through chapter tests, quizzes and the final exam

Course Content

1. Basic Concepts and Properties of Mathematics
2. Algebraic Equations and Inequalities
3. Polynomials
4. Rational Expressions and Equations
5. Exponents and Radicals
6. Quadratic Equations and Inequalities
7. Two Variable Equations and Inequalities
8. Functions
9. Polynomial and Rational Functions
10. Exponential and Logarithmic Functions
11. Systems of Equations