Syllabus
Intermediate Algebra

Course: MA 100, 4 Credits, Section 02: 2:00-2:50 pm, Section 04: 3:00-3:50 pm
Term: Winter 2015
Classroom (subject to change last minute): Section 02: WS3801, Section 04: JXJ3313
Assistant Professor: Dr. Amy E. Barnsley
E-Mail: abarnsle@nmu.edu
Office Phone: 227-1608 (better to email)
Office Hours & Location: Jamrich Room 2210, Mon/Wed/Thur 10am-12 noon. Other times by arrangement.
Required Supplies: 18 week access code to Aleks Higher Education ($78 from Aleks website, $104 from NMU bookstore)
Online homework www.aleks.com  Course Code: 4GWYE-LPX9F
Financial Aid Access Code is: 7A6D8-958CF-84A5E-06C65 (Use this only if you do not have your code yet)

EduCat: Course materials (syllabus, calendar, your grades etc) will be available on EduCat. You must be able to receive emails sent via EduCat (university generated email address).

Course Description: The study of polynomials, graphing, algebraic fractions, radicals, lines and linear equations and inequalities, quadratic and exponential equations and systems of equations. Applications are emphasized.

Course Goals: This course aims to help students build a secure foundation in algebra skills through meaningful contextual problems and situations, and to develop skills that will help students succeed in a college level math class.

Student Learning Outcomes for Intermediate Algebra:
POLYNOMIALS AND FACTORING
Perform operations and factor polynomial expressions
Factor sum and difference of cubes
Factor quadratic equations when leading coefficient is not 1

RATIONAL AND RADICAL EXPRESSIONS AND EQUATIONS
Evaluate, perform operations and simplify rational expressions
Evaluate, perform operations and simplify radical expressions
Solve equations with rational expressions
Solve radical equations
Apply complex numbers

LINEAR EQUATIONS AND INEQUALITIES
Apply concepts of sets (unions, intersections, interval notation, set notation, Venn diagrams)
Solve and graph linear absolute value equations
Solve systems of linear equations
Solve and graph linear inequalities

QUADRATIC EQUATIONS AND FUNCTIONS
Solve quadratic equations by factoring
Solve quadratic equations by completing the square
Solve quadratic equations by quadratic formula
Solve quadratic equations by square root method
Graph and interpret quadratic functions
Graph and interpret linear functions
Graph and interpret square root functions
Graph and interpret absolute value functions

APPLICATIONS
Solve applied problems. To include, but not limited to; joint and combined variation, quadratic applications, basic geometry and basic exponential problems.

Instructional Methods: The format of the class will involve lecture, strategies for problem solving, small group work and practice on daily homework and demonstration of learning homework, quizzes and exams. Online homework is required for this class.

Prerequisites: Passing grade in MA 090 or satisfactory score on math placement exam. A graphing calculator or equivalent computer software is used in this course.

Grades: Grades are based on the following scale

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59%</td>
<td>F</td>
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</tbody>
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This represents a guarantee. The instructor reserves the right to improve grades beyond what is shown here.

Your grade has the following components:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Portfolio</td>
<td>5%</td>
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<tr>
<td>Homework</td>
<td>10%</td>
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<tr>
<td>Quizzes</td>
<td>10%</td>
</tr>
<tr>
<td>Practice Exams</td>
<td>5%</td>
</tr>
<tr>
<td>Exams (4)</td>
<td>40%</td>
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<tr>
<td>Final Exam</td>
<td>30%</td>
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Portfolio: Use a 3 ring binder or some other organizer. These will be graded on exam days. Portfolio should have at least the following notes, homework, quizzes and exams. See grading rubric. Due on day of exams.

Homework: Homework will be done on an online homework program called ALEKs. Aleks costs about $80. Unlimited attempts allowed up to due date. No late homework will be accepted. Due at 2pm next class day.

Quizzes: Weekly quizzes will be given on Friday. These will occasionally involve group problem solving. Quizzes must be taken in class on Friday and cannot be made up.
Practice Exams: Practice exams will be available on Aleks. They can be done in small groups. Some class time will be given. Two attempts only. Due on day of exams.

Exams: Exams will be paper and pencil. As a policy, exams cannot be retaken. An exam will be considered to be taken if you have started it. Exams cannot be missed except in extreme cases. The final exam is comprehensive.

Keep all graded work until you get your final grade. If you believe homework, quiz or exam was graded incorrectly please bring your concern forward immediately; but absolutely before the final exam.

There can be "technical" glitches which cause you to be unable to login to your homework. Do not leave your homework until the last minute. It is your responsibility to do on-line homework by the time it is due. Unless technical glitches are incurred by all members of the class they will not excuse a homework.

For written work you are graded not only on correctness, but also on clarity of work. If I can’t read your writing, then a correct answer will not get you full credit. You must show all steps. Just giving the answer will not earn full credit. Again, you must show all work. Word problems can often be solve by just “thinking” about it. In this class you must use algebra and show all work to earn credit.

Final Exam:
Section 02: Tuesday, April 28, 2:00 pm- 3:50 pm
Section 04: Thursday, April 30, 2:00 pm- 3:50 pm

Math Tutoring Room: Extra help is available for free. Tutors are available Monday-Friday 9 am- 4 pm to help with questions in West Science Room 3810. Study groups with classmates are encouraged.

Teaching Assistants (TA):
Carissa McDonald camdona@nmu.edu, Tiffanie Meyers timeyers@nmu.edu

Audits: A student who audits this course must attend class regularly. An auditing student does not need to take the exams but must turn in all homework and quizzes. A student cannot change this course to an audit if a homework or a quiz is missing.

Drop: January 20 Last day to drop a class with no course record.

Withdrawals: March 27 Last day for course withdrawal. I will recommend or do a faculty-initiated withdrawal for any student earning below 60%. A W grade and an F grade have the same effect on your full time status. The difference is that an F grade hurts your GPA, but a W grade does not. It always benefits you to get a W, instead of an F.

Disability needs: 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.
**Big Tip:** Always come to class. Never be late. You are responsible for all material presented in class, even at times when you are absent.

**Class Etiquette:** Students who participate in this class in an adequate fashion have good attendance and are in the classroom at the start of the class. They stay until the end of class. They have a good record of turning in homework. They do not disturb those around them (whispering, leaving to get food, eating during class, etc). Those students that participate in a substantial fashion are attentive and discuss ideas in a reasonable and polite fashion. Please turn off all beeping devices (cell phones, watches) before the start of each class. Absolutely no cell phones or headphones are allowed in class during tests, quizzes or lectures. If I see or hear your cell phone you will be asked to leave class for the day.

**DEVELOPMENTAL MATHEMATICS LAB SESSION/TUTORING POLICY:**
Students are required to meet with a Teaching Assistant (TA) for one hour per week any time in which the student’s grade on a test is below 70%. Students must continue to do this until they achieve at least 70% on a subsequent test. It is the student’s responsibility to learn if he or she is required to continue attending after the next test is taken. Students should ask the instructor if they are uncertain. Do not make any assumptions about your attendance status. All students, even if they score at least 70% on a test, are welcome to work with the tutors and TAs. Students will be asked to initial a sign-in sheet to indicate their presence. A student who misses a session or arrives more than 10 minutes late will be marked absent. No more than four (4) unexcused absences from the required lab session or meeting with the TA will be permitted. Students who exceed the number of unexcused absences will be required to meet with the instructor to discuss their commitment to the course. The instructor reserves the right to reduce a student's grade due to an excessive number of absences or to give the student a failing grade in the course. Students may also choose to withdraw from the course prior to the University's class withdrawal deadline.