

Syllabus Beginning Algebra

Course: MA 090, 4 Credits, Section 01: 1pm-1:50 pm, Section 02: 9:00 am- 9:50 am

Term: Winter 2015

Classroom (subject to last minute change) Section 01: JXJ2319 Section 02: JXJ3309

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: Aleks 360 Access Code for Elementary and Intermediate Algebra Dugopolski with eBook: \$99 from NMU bookstore, \$89 with ebook/ \$78 without ebook from Aleks website.

Optional Textbook: Elementary and Intermediate Algebra Dugopolski

Online homework www.aleks.com

Course Code 9 am class: TKXAE-N3WMP

Course Code 1pm class: PYQLW-CRYWM

Financial Aid Access Code (use only if you don't have your access code)

9am class **EBADE-67CEB-54D72-92E80**

1 pm class **9D647-69C0D-2D1EB-B66FE**

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

Course Description: The study of the fundamental operations of algebra with a problem solving emphasis. The course includes graphing, linear equations, exponents, and introductory probability and statistics.

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 Beginning Algebra:

INTEGERS AND RATIONAL NUMBERS

Use order of operations to simplify and perform operations on algebraic expressions

Evaluate algebraic expressions

LINEAR EQUATIONS AND INEQUALITIES

Solve linear equations in one variable

Graph and interpret linear equations

Determine equations of lines

Solve and graph linear inequalities in one variable

Graph linear inequalities in two variables

EXPONENTS AND RADICALS

Apply exponent rules to algebraic expressions

Convert between radical and exponential notation

Simplify radical numbers

FACTORING

Factor polynomials by factoring out the GCF
Use grouping to factor polynomials
Factor difference of two squares
Factor perfect square trinomials
Factor quadratics with leading coefficient 1

PROBABILITY AND STATISTICS

Solve problems involving basic probability
Present and evaluate data using various graphical methods
Find mean, median, and mode of a data set

APPLICATIONS

Solve applied problems from all areas. To include but not limited to: Pythagorean Theorem, basic geometry, direct and inverse variation.

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: OC 080 (B- or better) or satisfactory score on the math placement exam.

Grades: Grades are based on the following scale

90-100%	A
80-89%	B
70-79%	C
60-69%	D
0-59%	F

Your grade has the following components:

Portfolio	5%
Homework	10%
Quizzes	10%
Practice Exams	5%
Exams (5)	50%
Final Exam	20%

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 online with a homework program called ALEKs. No late homework will be accepted. Due at start of class next 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. 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 01: Wednesday, April 29 12 pm- 1:50 pm, Section 02: Wednesday April 29, 8 am – 9:50 am.

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 Assistant (TA): Molly Smith molsmith@nmu.edu and Sam Morey smorey@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 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.