

Section: MA090-02 (10750) 4 credits (1 - 1:50 pm) MTWR Room: The Science Building (TSB) 3801

Instructor: (Ms.) Rosanne Parks

Office: Jamrich Room 2213

Office phone: (906) 227-1479 (No voice mail)

e-mail: rparks@nmu.edu (best way to contact me)

Office Hours:

2 pm – 3 pm MTWR; Other times by appointment

Drop-ins are **always** welcome

Math/CS office: (906) 227-2020

Teaching Assistant: Drew Karston email: dkarston@nmu.edu

Prerequisite: AT LEAST a C– in OC 080 or a satisfactory score on the Math Placement Exam.

Required Materials:

(1) **Text:** *Beginning & Intermediate Algebra* (Sixth Edition) by Miller, O’Neill, and Hyde
(the ISBN number is 978-1-260-67353-1)

(2) NMU e-mail account which you must check DAILY (*Please check your email several times a day!*)

(3) **Portfolio:** Three ring binder with **LARGE** rings (**2, 2.5, or 3 in**) for class notes & assignments, tests & quizzes. Refer to the Portfolio Organization Handout.

(4) Pencil and eraser (a pencil is **REQUIRED** for all tests, quizzes, graded assignments, and homework), graph paper, ruler or straight edge

(5) Scientific calculator (fraction key useful) that **does not have algebraic technology**. **A cell phone calculator is not acceptable**. You do not need a graphing calculator for this course.

Recommended calculator: TI-30X IIS

Note: Laptops will not be used in this class. (If you need to bring your laptop to class, you will be notified well in advance.)

Additional Expectations:

- arrive for every class with necessary tools: textbook, portfolio (notebook), pencil, and calculator
 - keep cell phones and other electronic devices out of sight (meaning in your back pack) and on silent (Please speak to the instructor if you anticipate receiving an emergency call during class.)
 - be attentive and actively participate in class
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COURSE DESCRIPTION: MA090 includes the study of linear expressions and equations, inequalities, systems of linear equations, polynomials, factoring, and an introduction to quadratic expressions and equations. (Emphasis on factoring.)

Student Learning Outcomes for Beginning Algebra

Chapter 2: Linear Equations and Inequalities

- 1) Solve linear equations in one variable, including clearing fractions and decimals
- 2) Solve and graph linear inequalities in one variable; use interval notation
- 3) Solve applied problems such as applications involving consecutive integers, geometry, percent, mixture, and uniform motion

Chapter 3: Graphing Linear Equations in Two Variables

- 4) Graph and interpret linear equations and linear inequalities, including the slope, y-intercept, and both x- and y-intercepts
- 5) Determine equations of lines given the slope and a point or given two points;
Determine equations of lines which are parallel or perpendicular to a given line
- 6) Solve applied problems such as writing a linear model from observed data points

Chapter 4: Systems of Linear Equations

- 7) Solve systems of linear equations
- 8) Use systems of linear equations to solve applied problems involving geometry, cost, investment, mixture, and distance

Chapter 5: Polynomials and Properties of Exponents

9) Apply exponent rules to algebraic expressions

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

Chapter 6:

11) Factor the Greatest Common Factor (GCF) from polynomials

12) Factor four-term polynomials by grouping

13) Factor quadratic trinomials using the AC-method, including problems where the lead coefficient is greater than one

14) Factor the difference of two squares

15) Factor perfect square trinomials

16) Factor the sum and difference of cubes

17) Solve equations using the zero product property

18) Solve applied problems using quadratic equations, including applications involving the Pythagorean Theorem

Learning outcomes will be assessed using assignments, quizzes, tests, and the final exam.

ATTENDANCE:

Daily attendance is expected. Attendance will be recorded daily. Absence from class, for whatever reason, **does not** excuse a student from any class work or assignments missed. The student must assume full responsibility for making arrangements for any assignments missed due to the absence. Cell phone use in class may result in a student being marked absent for the class.

DEVELOPMENTAL MATHEMATICS TUTORING POLICY:

Students are required to meet with the Teaching Assistant (TA) and/or Instructor during their office hours at any time in which the student's grade on a test is below 70%. Meeting with the TA or Instructor is optional, though strongly recommended, for test grades in the 70 – 79% range. Students must continue to meet with the TA until they achieve at least 70% on a subsequent test.

ASSIGNMENTS:

In order to be successful in a college course, a common guideline is to spend at least 2 hours outside of class for each hour of class time. **Since this is a 4 credit hour course, I strongly encourage you to spend at least 6 to 8 hours on this course outside of class each week.** Math is not learned by memorizing but by practicing. Practice is accomplished by doing the assigned homework every day.

Reading and problems are assigned each day. Take accurate and complete notes on the material presented in class. Your notes should include the complete solutions to any examples used during lecture/practice. For the sake of your success, be sure to read the textbook for comprehension and review your notes before starting homework assignments. Each homework assignment (and each section within a homework assignment) should start on a clean sheet of paper and start with a **heading** which includes your name, the date assigned, chapter and section number, page numbers and the problem numbers assigned. (*Refer to the Portfolio Organization Handout.*) In doing homework, copy the problem and **SHOW YOUR WORK** for each problem assigned. **Make corrections** as we discuss the problems. **SUGGESTION:** Do not erase your original work. Do your corrections in red ink. Several assignments (with varying point values) will be collected and graded throughout the semester. Late assignments will not be accepted!

Portfolios will be collected and graded on test days. Each portfolio check is worth 20 points. Homework is to be removed from your portfolio and submitted separately. Each assignment must be labelled with a proper heading and the assignments are to be submitted in chronological order. Refer to the handout concerning portfolio requirements.

Remember: **MATHEMATICS IS NOT A SPECTATOR SPORT!**
MATHEMATICS IS LEARNED BY DOING, NOT BY OBSERVING!

TESTS & QUIZZES:

All quizzes and tests must be written in pencil. Quizzes will be given often and are worth 25 pts each. Some may not be announced. No make-up quizzes will be given without **PRIOR ARRANGEMENT**. The lowest quiz score will be dropped if doing so would improve the student's average. There will be 4 (possibly 5) tests, each worth 100 points. Tests will cover assigned reading, concepts presented in class, notes, and assigned homework. **NO TEST SCORES WILL BE DROPPED.** You must take tests and quizzes at their scheduled times (unless you have special accommodations through Disability Services). No make-up is possible for any test unless you notify me **before** test time of the reason for your absence. A documented excuse may be requested in order to take a make-up test. Grades on quizzes and tests are not "curved."

FINAL EXAM: The *comprehensive* final exam will be worth 200 points (approximately 15% of your grade).

WRITTEN WORK:

For **written work** (quizzes, graded assignments, tests, final exam, homework) you will be graded not only on correctness, but also on clarity of work. If I cannot read your writing, then a correct answer **will not** get you full credit. You must show all steps. Just giving the answer for a problem requiring work will not earn full credit. Again, you must show all work. Word (application) problems can often be solved by just "thinking" about it. However, in this class you must use algebra and show all work to earn credit. **REMINDER:** Tests, quizzes, the final exam, graded assignments, and homework must be done in pencil.

GRADES:

To pass this course you must take all tests. Your course grade will be based on total points earned on your quizzes, tests, graded assignments, homework, math portfolio, final exam, and bonus points (extra credit). Grades on tests and quizzes are not "curved."

The grading scale is: A: 90 - 100%; B: 80 - 89%; C: 70 - 79%; D: 60 - 69%; F: less than 60%

(**NOTE:** A grade of **AT LEAST C-** in MA090 is required for registration in MA100.)

EXTRA HELP:

- 1) My Office: during regular office hours or by appointment. Drop-ins are always welcome!
- 2) Office Hours with your Teaching Assistant
- 3) Math Study Lab/Tutoring Room: Jamrich 2100 Free extra help is available.
Tutors are available Monday – Thursday from 10 am – 7 pm and Friday from 10 am – 5 pm

Study groups are recommended.

The following websites contain short video lessons: www.amybarnsleymath2.com (MA090 topics)
www.amybarnsleymath.com (MA100 topics)
(Note: Chapters 4 and 6 are covered in both MA090 and MA100)

Remember: Your teaching assistant can meet with you individually or in small groups. Contact Drew to set up a meeting. His job is to help improve student success.

Drew Karston email: akarston@nmu.edu

DISABILITY SERVICES: If you have a need for disability-related accommodations or services, please inform the Coordinators of Disability Services in the Dean of Students Office at 2001 C. B. Hedgcock Building (227-1737 or disability@nmu.edu). 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.

Here is the website for disability services: <http://www.nmu.edu/disabilityservices/node/1>

ACADEMIC INTEGRITY: Students are expected to do their own work and follow the university academic honesty policy. This policy can be found in the student handbook. See the link here:
<http://www.num.edu/dso/studenthandbook>

IMPORTANT DATES: (Full Semester Courses)

1) DROPS:

Last day to drop a class with no course record (100% refund & no grade) is
Tuesday, January 21, 2025 by **5 pm**.

Drop Procedure: <http://www.nmu.edu/records/adddropprocedure>

2) WITHDRAWALS:

Last day for course withdrawal is **Friday April 25, 2025 by 5 pm**. I will recommend withdrawal for any student earning below 60%. A withdrawal (W) grade and a failing (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.

Remember: A grade of AT LEAST C- (70%) in MA090 is required for registration in MA100.

Withdrawal procedure: <http://www.nmu.edu/records/node/19>

FINAL EXAM DATE

1 pm class (MA090-02) Tuesday, April 29, 2025 from 12 pm – 1:50 pm
