NKU SYLLABUS FOR MAHD 094 –

INTERMEDIATE ALGEBRA

INSTRUCTOR: **EMAIL:** @nku.edu

OFFICE: MEP 401   **OFFICE PHONE:** 572-####
DEPT PHONE: 572-6347

OFFICE HOURS: M 12:00-12:50, **MWF** 10:15-10:55, **TR** 11:15-12:05, **R** 1:40-2:10 or by appointment.

Course Description: MAHD 094 is an accelerated essential algebra course which builds a basic foundation of algebraic skills. This course is personalized for each student so that students can accelerate through previously mastered material. This course is a prerequisite to various courses such as MAHD 099, MAT 115, and STA 205.

This course does not count toward graduation, does not meet the general education requirement and does not count in the gpa.

PREREQUISITE: Developmental Mathematics faculty recommendation or placement.

MATERIALS: Access to a computer (or equivalent technology) with a web browser and internet access capable of running MyMathLab. A MyMathLab Student Access Kit is required for this course.   The access code can be purchased directly from www.mymathlab.com.
Material to be covered, Chapters R, 1–5, sections 6.1, 6.2, 8.1, 9.3, 9.4, & 7.6 from Introductory Algebra through Applications by Geoffrey Akst & Sadie Bragg, 3rd edition.

A scientific calculator may be used on select material in this course*. No graphing calculators, computer algebra systems, or their equivalent may be used on any content in any Developmental Mathematics course. Students may not share a calculator during any quiz, test, or the final examination.

*CALCULATOR POLICY FOR MAHD094:
- Calculators may be used on the Pre-Test and the Post-Test.
- Calculators may be used on all tests and the final exam, however, all work on fractions must be shown.
- Calculators on cell phones, iPods, or other electronic/digital devices may not be used.
- If you do not have an appropriate calculator you will not be permitted to use one on tests or quizzes.

To avoid the appearance of impropriety, during any test given in a Developmental Mathematics course, any device capable of sending messages, taking pictures, or

accessing the internet (cell phones, IPod, etc) must be turned off and stored in an inaccessible location. A violation of this policy will result in a 0 on that test.

ATTENDANCE: You are expected to be present, prepared, and working for each of the 15 classes. Attendance will be taken. **TIMELY** completion of assignments and tests is crucial to success in this course. Students are responsible for all material assigned in MyMathLab and on the MyMathLab calendar. Attendance will count as 3% of your grade.

HOMEWORK: You must complete a chapter pre-test before completing homework. Homework assignments will be "personalized" based on the results of the pre-test. Homework **will be assigned regularly on MyMathLab**. There may be more than one assignment on a given day. Homework assignments must be completed on **MyMathLab**. There is a MyMathLab link found on Blackboard. **LATE HOWMEWORK WILL RECEIVE REDUCED CREDIT.** The homework grade will count as 10% of your grade. **TIMELY** completion of assignments and tests is crucial to success in this course.

QUIZZES: Timed quizzes will be given periodically on MyMathLab. **THERE WILL BE NO MAKEUPS ON QUIZZES even with an excused absence.** The quiz grade will count as 8% of your grade.

TESTS: There will be three tests and a comprehensive final exam. All tests and the final exam will be cumulative. All tests and the final exam must be taken in my office unless you need to use a proctor (an educator or librarian). Only one test may be made up and then only for a serious, verifiable reason. You must contact the instructor **ON OR BEFORE** the scheduled test day and arrange to take a makeup. If you do not contact the instructor on or before the test day, no makeup will be given and you will receive a grade of zero for that test.

		93-100	A	77-79.9	C+
3 Tests (18% each)	54%	90-92.9	A-	73-76.9	C
Homework/Quizzes	21%	87-89.9	B+	70-72.9	C-
Final Exam	25%	83-86.9	B	Below 70	F
		80-82.9	B-		

GRADING:

FINAL EXAM: Wednesday, October 8 at 2:00 or at a pre-arranged time and location.

WITHDRAWALS: The last day to drop with a 50% tuition adjustment is Wednesday, August 27. The last day to withdraw (with no reimbursement) is Thursday,

September 18. Withdrawals after that date are generally NOT permitted. Documentation is required for any late withdrawal.

Tentative Course Schedule: A calendar indicating quiz dates and test dates can be found on Blackboard. Due dates for the homework and quizzes are found under the homework tab in MyMathLab.

Credit Hour Policy Statement

In accordance with federal policy, NKU defines a credit hour as the amount of work represented in the achievement of student learning outcomes (verified by evidence of student achievement) that reasonably approximates one hour (50 minutes) of classroom instruction and a minimum of two hours of out-of-class student work. For every course credit hour, a typical student should expect to spend at least three hours per week of concentrated attention on course-related work including, but not limited to, class meeting time, reading, reviewing, organizing notes, studying and completing assignments. At least an equivalent amount of time is expected for other academic activities such as online courses, laboratory work, internships, practica, studio work and other academic work leading to the award of credit hours.

Estimates of the time required for a typical student to complete course expectations are as follows:

In-class: 2 days x 75 minutes x 8 weeks	20.0 hrs (1200 minutes)
Read Text/View MyMathLab examples or videos: 41 sections x 20 minutes	13.7 hrs (820 minutes)
MyMathLab Homework: 42 sections x 45 minutes	31.5 hrs (1890 minutes)
Quiz Preparation and completion:	5.0 hrs (300 minutes)
Tutorials	6.0 hrs (360 minutes)
Test Preparation: 3 tests x 180 minutes	9.0 hrs (540 minutes)
Self-Assessment (after each test) 3 x 30 minutes	1.5 hrs (90 minutes)
Final Exam and Preparation: 240 minutes	4.0 hrs (240 minutes)
Total	90.7 hrs (5440 minutes)

Student Learning Outcomes:

Students will be able to:
1. Simplify and evaluate algebraic expressions using order of operations.
2. Solve linear equations and inequalities in one variable.
3. Solve literal equations for the designated variable.
4. Solve proportions.
5. Graph linear equations in two variables by plotting points and finding intercepts.
6. Graph linear inequalities in two variables.
7. Find the slope of a line given two points, its graph, or its equation.

8. Simplify expressions with integer and rational exponents using the product, quotient, and power rules.
9. Add, subtract, multiply, and divide polynomials with one or more variables.
10. Factor the greatest common factor from a quadratic; factor simple trinomials of the form $ax^2 + bx + c$.
11. Simplify square roots of numeric and algebraic expressions.
12. Solve quadratic equations.
13. Determine an equation of a line given two points or a point and slope.
14. Solve systems of linear equations in two variables by graphing, substitution, and elimination.
15. Graph parabolas by finding the vertex and axis of symmetry and plotting points.
16. Apply the concepts learned in the course to solve application problems.

The mission statement, goals, and objectives of the Developmental Mathematics Program are posted in the Developmental Math Center, UC 170.

DEPARTMENT SYLLABUS: The Departmental Syllabus located at the link http://lap.nku.edu/developmental/mathematics/syllabi.html gives important information common to the University as well as general guidelines for all MAHD classes. This syllabus is also available on Blackboard for this class.

THE INSTRUCTOR RESERVES THE RIGHT TO MAKE ANY CHANGES IN THE SYLLABUS AS DEEMED NECESSARY.