Midland College
Syllabus
2008-09
Math 0192, 0193, 0194, 0195
FLEX Introductory Algebra
(1-0 each Module)

Course Description:
These four modules are equivalent to MATH 0390 and corequisite lab MATH 0190. These are self-paced classes that must be completed in sequence. Students are allowed to compress or expand the amount of material completed in a semester. We suggest that students work at least four hours a week in the lab for at least four weeks to complete one of the modules. When the sequence is completed, the student will have four hours of credit comparable to those acquired in MATH 0390 and corequisite lab. Computer assisted instruction, tutorial help. THEA lectures, and video tapes are available to support these classes.

This Introductory Algebra sequence will permit students to become more proficient in areas of basic arithmetic operations, fundamental algebraic operations, simple factoring, exponents, radicals, the solving of linear and quadratic equations, and word problems. Requires successful score on math placement test or “B” or great in Math 389, or 206 on THEA. Course fee.

Text and Materials:
MyMathLab access code

Optional Textbook:

Course Goals/Objectives:
After successful completion of this course sequence students will be able to:

- Use appropriate algebra terminology
- Simplify algebraic expressions
- Solve and graph linear equations and inequalities
- Solve quadratic equations
- Create mathematical models

Student Contributions and Class Policies:
Students are expected to attend and participate in the class. Students are expected to behave in an appropriate manner so as not to interfere with learning.

Each module has a Pre-Test required. See course schedule for details.
Evaluation of Students: 

Students will be evaluated based as follows

0 - 20%  Homework, Quizzes, Review Assignments
60 - 80% Exams: A student may retake each major exam one [1] time. If a student makes below 75, he/she is required to retake the exam one [1] time. The higher grade is recorded.
20 - 30% Final Exam: The final exam for each module is comprehensive and must be taken to pass the course. The final exam may be retaken one [1] time.

Grade Ranges are: 80-100 P (Pass)
Below 80 F (Fail)

Below 80 on a module the module is to be repeated. The student must re-enroll to repeat the module.

Any grade ranges that differ from these should be noted in the individual instructor’s grade book.

Course Schedule: 


Intellectual Competencies:

1. Reading – Understanding the material incorporated in the text used in this course will require the student to analyze and interpret various mathematical concepts.

2. Listening – The primary teaching methods used in this course are discussion and lecture. Understanding the oral presentation of material will require the student to analyze and interpret various mathematical concepts.

3. Critical Thinking – Critical thinking, as exemplified by problem solving, is inherent in the study of any scientific discipline. Mathematical problems will be considered, discussed, and analyzed in this course.

ADA Statement: 

Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the instructor as soon as possible. These conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations.
Instructor Information:

Name: 
Office: 
Phone: 
E-mail: 
Hours: 

Division Chair: Dr. Margaret Wade, 125 SF, 685-4615

Division Secretary: Ms. Norma Duran, 124 SF, 685-4612
Ms. Brenda Smith, 124 SF, 685-6413
Course Schedule

Math 0192

Topic

Review of Operations with Fractions
Chapter 1: Real Numbers and Algebraic Expressions
1.2 Algebraic Expressions and Sets of Numbers
1.3 Operations on Real Numbers
1.4 Properties of Real Numbers
Chapter 2: Equations, Inequalities, and Problem Solving
2.1 Linear Equations in One Variable
2.2 An Introduction to Problem Solving
2.3 Formulas and Problem Solving
2.4 Linear Inequalities and Problem Solving

Math 0193

Topic

Chapter 2: Equations, Inequalities, and Problem Solving
2.5 Compound Inequalities
2.6 Absolute Value Equations
2.7 Absolute Value Inequalities
Chapter 3: Graphs and Functions
3.1 Graphing Equations
3.2 Introduction to Functions
3.3 Graphing Linear Functions
3.4 The Slope of a Line

Math 0194

Topic

Chapter 3: Graphs and Functions
3.5 Equations of Lines
3.6 Graphing Linear Inequalities
Chapter 4: Systems of Equations
4.1 Solving Systems of Linear Equations in Two Variables
4.3 Systems of Linear Equations and Problem Solving
Chapter 5: Exponents, Polynomials, and Polynomial Functions
5.1 Exponents and Scientific Notation
5.2 More Work with Exponents and Scientific Notation

Math 0195
Chapter 5: Exponents, Polynomials, and Polynomial Functions

5.1 Exponents and Scientific Notation
5.2 More Work with Exponents and Scientific Notation
5.3 Polynomials and Polynomial Functions
5.4 Multiplying of Polynomials
5.5 The Greatest Common Factor and Factoring by Grouping
5.6 Factoring Trinomials
5.7 Factoring by Special Products
5.8 Solving Equations by Factoring and Problem Solving