Math 103: College Algebra Syllabus

Course Prefix/Number/Title:
Math 103: College Algebra; 4 credits

Course Description
Linear and quadratic equations, radicals, exponents and logarithms, rational expressions, systems of linear equations, functional notation, sequences, and series

Course Objectives/Student Outcomes
The student will be introduced to the topics above which require certain techniques for solutions. We will develop ideas and methods for applying these techniques leading to a solution or resolution of the question. During the course the student will be exposed to the use and application of the graphics calculator in the appropriate areas.

Instructor: Connie Blair
Office: Admin RM 159
Office Hours: MTWHF, 8:00-8:50, 11:00-12:00
Phone: (701) 858-4339
Email: connie.blair@minotstateu.edu

Class Schedule: MTWTh 3:00-3:50

Required Materials
Textbook: College Algebra by James Stewart, Lothar Redlin, Saleem Watson, Brooks/Cole, 2009.
Calculator: TI-83 or TI-84 series.

Course Requirements
The sequential nature of mathematics deems it necessary for students to attend class on a regular basis, therefore one of the course requirements is regular attendance. Grades

Evaluation
Quizzes—20%	There will be daily homework assignments reinforced by Homework Quizzes counted for a grade. There are no make-ups.
Tests—80%	Test grades will be based on five exams of equal weight.

Letter grades are assigned using the following scale
A 90-100%
B 80-89%
C 70-79%
D 60-69%
F 59% or lower

Tentative Course Outline
- Real Numbers, Operations and Properties
- Linear Equations and Inequalities

- Polynomials: Operations and Factoring
- Rational Expressions and Polynomial Division
- Rational Exponents and Radicals
- Quadratics and the Quadratic Formula
- Graphing Linear Equations and Inequalities
- Functions: linear, quadratic, polynomial, exponential, logarithmic
- Linear Systems and Matrices
- Sequences and Series

General Education Goals/Objectives

Goal 2: Demonstrates knowledge and application of technology

Objective 4: Employs problem solving and critical thinking skills in order to solve a variety of different problems

Skill 2: Analyze Information to Determine its Validity

Skill 3: Draws conclusions from information collected

Goal 3: Demonstrates the ability to convert, calculate, and analyze a variety of mathematical problems

Objective 1: Utilizes mathematical equations to solve problems

Skill 1: Solves equations and problems using the appropriate method

Objective 2: Applies practical application of mathematics to everyday life

Skill 2: Defines and demonstrates the use of decimals, percentages, and fractions

Skill 3: Solves Word Problems

Objective 3: Employs problem solving and critical thinking skills in order to solve a variety of different problems

Skill 2: Analyzes materials to determine their validity

Skill 3: Draws conclusions from information collected

Relationship to Campus Theme

The student will use the graphing calculator to model application problems in nature, economics, science, psychology, etc. Communication with others will be emphasized.

Classroom Policies

- **ATTENDANCE:** The sequential nature of mathematics deems it necessary for students to attend class and *participate* on a regular basis; therefore one of the course requirements is regular attendance and will be enforced using homework quizzes.
- **ASSIGNMENTS:** Students will have daily homework assignments
- **ELECTRONIC DEVICES:** Turn off or mute (not vibrate) cell phones, pagers, and other electronic devices. There is absolutely no cell phone or iPod use during class.

Academic Integrity

The academic community is operated on the basis of honesty, integrity and fair play. It is the expectation that all students, as members of the college community, adhere to the highest levels of academic integrity. This means that

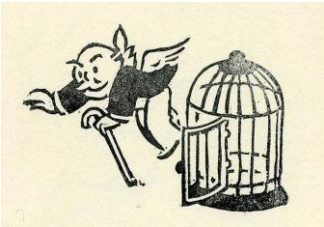
- Students are responsible for submitting their own work. Student work must not be plagiarized.
- Students must not cooperate on oral or written examinations or work together on evaluated assignments without authorization

Violations of academic principles such as cheating, plagiarism or other academic improprieties will be handled using the guidelines outlined in the Student Handbook.

Disabilities and Special Needs

If you have a disability for which you need accommodation, please see me immediately. If you have already met with Student Developmental personnel, please provide me with the information regarding your needs so that I can make the appropriate accommodations.

Get out of Jail Free



Turn in a late assignment up until the last week of the semester. This card is worth 5 points on your final exam if it is not used.

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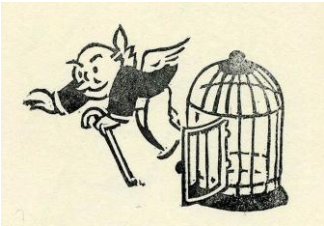

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