DAKOTA COLLEGE AT BOTTINEAU
Course Syllabus

Course Title and Number, Credits: MATH 103 College Algebra, 4 credits

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

Prerequisite: MATH 102 Intermediate Algebra, placement by math placement test or instructor approval.

Course Objectives: 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: Tracy Chisholm
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Lecture: MTRF   7:45am - 8:35am

Required Text: College Algebra 2nd Edition by John W. Coburn. McGraw Hill Publishing

Graphing Calculator: preferably 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 will be based on timely completion of assignments, periodic exams, and quizzes using the following scale.

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%

Tentative Course Outline:

- Review of Basic Concepts and Skills
- Equations and Inequalities
- Relations, Functions, and Graphs
- Polynomial and Rational Functions
- Exponential and Logarithmic Functions
- Systems of Equations and Inequalities

General Education Goals/Objectives:

- Goal 2: Demonstrates knowledge and application of technology.
  - Objective 2: Uses electronic resources for course related assignments and information
    - Skill 1: Selects appropriate program on the graphing calculator to solve problems

- Goal 3: Demonstrates the ability to convert, calculate, and analyze a variety of mathematical problems
  - Objective 1: Utilizes mathematical equations to solve problems
    - Skill1: Solves equations and problems using the appropriate method
  - Objective 2: Applies practical application of mathematics to everyday life
    - Skill3: Solves word problems

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:
Please refrain from any behavior that would disrupt the class. Cell phones can only be used in emergency situations and they must be turned to vibrate. The academic environment is an open and harassment free environment. Participation is encouraged.

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.

- If there is evidence of cheating on an exam the student will receive an F on the respective exam.

Disabilities and Special Needs:
If you have a disability for which you need accommodation, contact the Learning Center to request disability support services: phone 701-228-5477 or toll-free 1-888-918-5623.