# **Dakota College at Bottineau Course Syllabus**

Dakota Conege at Bottineau Course Synabus
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:
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 graphing calculator in the appropriate areas.
Instructor:
Scott Johnson
Office:
Nelson Science Center 110
Office Hours:
MWF 1:00-2:00
Phone:
(701)-228-5474
Email:
scott.johnson@dakotacollege.edu
Lecture:
MTWF 9:00, NSC 125 and 11:00, NSC 105
Textbook/Calculator:

<u>College Algebra</u> 5e by James Stewart, Lothar Redlin, Saleem Watson, Brooks/Cole, 2009. 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 five exams using the following scale.

A = 90-100%

B = 80-89%

C = 70-79%

D = 60-69%

F = 59-0%

#### **Tentative Course Outline:**

Real Numbers, operations and properties
Linear Equations and Inequalities
Polynomials: 1. Operations 2. 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 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:**

Mathematics 103 emphasizes technology through the use of graphic calculators and nature through wildlife population modeling.

## **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:**

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 will need accommodation, contact the Learning Center to request disability support services.

Thatcher Hall 1104; phone 701-228-5477 or toll free 1-888-918-5623.

### **Student Email Policy:**

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.