

## Dakota College at Bottineau Course Syllabus

Course Prefix/Number/Title: 092 Beginning Algebra, 3 credits

Course Description: This course will be required for students with deficient mathematics skills as determined by the institution's math placement policy. It is a beginning mathematics course covering fundamental operations, factoring, fractions, exponents, radicals, and equations. It does not satisfy any graduation requirement.

### Course Objectives:

1. To give an appreciation of mathematics as a unified system.
2. To build upon newly defined terms, axioms, definitions, and theorems proved from these.
3. To prepare students who need a solid foundation in order to take College Algebra.

Instructor: Betty Rehfuss

Office: Nelson Science Center 112

Office Hours: 11:00-12:00 and 3:00-4:00 MTWRF

Phone: 228-5424

Email: [Betty.Rehfuss@dakotacollege.edu](mailto:Betty.Rehfuss@dakotacollege.edu)

Lecture/Lab Schedule: 10:00-10:50 MTWF

Textbook(s): Introductory Algebra, by K. Elayn Martin-Gay.

### Course Requirements:

#### Evaluation

Sectional tests and group quizzes to measure retention of problem solving and theory.

#### Grading Procedure

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

### Tentative Course Outline:

1. Prealgebra Review (8 days)
2. Real Numbers and Introduction to Algebra (8 days)
3. Equations, Inequalities, and Problem Solving (8 days)
4. Exponents and Polynomials (7 days)
5. Factoring Polynomials (7 days)
6. Rational Expressions (7 days)

General Education Goals/Objectives:

**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

Relationship to Campus Theme: This course introduces application problems that concern nature and encourages students to interact with one another as they develop skills that will be useful in the future.

Classroom Policies: 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.

Academic Integrity: Each student will be required to do his or her own work on tests.

Disabilities and Special Needs: Accommodations will be provided on an individual basis.