ASC 092 Algebra Prep II

Course Description: This course is a beginning level algebra course. Topics covered include fundamental operations, fractions, exponents, equations, inequalities, and factoring. The class does not satisfy college graduation requirements for math.

> **Credits:** 2 semester credits
> **Prerequisite(s):** none.

Course Objectives/Student Outcomes:

It is expected that students will be able to

- Perform basic algebraic operations using positive and negative numbers, fractions, and exponents.
- Demonstrate an understanding of terms and rules used in algebra.
- Utilize problem-solving strategies to solve problems.
- Simplify expressions & solve equations and inequalities.
- Factor using greatest common factor, factor by grouping, and factor trinomials.
- Plot points, graph linear equations, and find slope of a line.
- Analyze and solve various types of math problems
- Utilize a hand-held calculator when solving algebra problems
- Gain the skills needed to participate in a college algebra course

Textbook: Tobey, Slater, Blair, & Crawford; *Beginning & Intermediate Algebra*, 4th Ed; e-Text with MyMathLab access code. (Print textbook with access code is an option.)

Course Requirements:

Learning algebra is an investment of time. Algebra is learned best by practice, reflect, and practice some more. Understanding the steps and explanations is a good start. However, to truly know the material, you should be able to look at a problem, know how to proceed, and carry out the steps WITHOUT ASSISTANCE. The multiple attempts in completing the practice assignments provide opportunities for you to get to that point. Passing grades on assessments demonstrate that you have indeed learned the skills taught.

> **Lessons:** Students are expected to take notes information provided by the instructor and supplement these notes with examples from MyMathLab.

Practice Assignments: These are graded assignments that can be done multiple times. Only the highest score will be used. These assignments close at the start of class on the due date. Do the work well in advance.

Quick Quizzes: Each lesson and practice is followed by a graded quiz of three to five questions. Quizzes will be completed at the start of the period and will close 15 minutes after the hour.

Tests: An *ungraded* pre-test is given early in the course. Five graded tests and a comprehensive final are administered over the eight-week term. Students are allowed one attempt on each test. It is the student's responsibility to take tests on (or before) the dates they are available.

Course Calendar: Assignments are due on or before the dates listed on the "Calendar of Due Dates." Students may work ahead.

Relationship to Campus Theme:

This course introduces algebra skills that are used to solve problems in science, technology, business, and social sciences.

Classroom Policies:

- Regular participation is expected.
- Learning activities and evaluation will occur in the MyMathLab learning system and requires Internet connectivity and a purchased access code.
- Students will complete tests without the use of calculators, notes, or other materials.
- Students excused for sports/school activities should work in advance of the due dates listed on the Calendar of Due Dates.

Evaluation:

Based on ND state policy, students must earn grades of C or higher to be promoted to the next level of college mathematics. Letter grades are assigned using the scale below.

> A--90-100%
> B--80-89%
> C--70-79%
> D--60-69%
> F--59% or lower

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 work together on graded assignments without authorization from the instructor or get help from people, technological resources, textbooks, notes, etc. on examinations.

To learn how to avoid plagiarism in your work, review the website from Purdue University, Is It Plagiarism Yet?

Violations of academic principles such as cheating, plagiarism or other academic improprieties will be handled using the guidelines outlined in the Student Handbook on pages 18, 19, and 37.

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.

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.