ASC 92 – Algebra Prep II

2 credits
Instructor: Tracy Chisholm

Course Description: This course continues the development of the fundamental skills required for the successful completion of studies in college level mathematics courses. Topics include Cartesian geometry and the graphing linear equations and inequalities, exponents and polynomials, formula manipulation, introduction to functions, and factoring quadratic expressions. Study skills will be incorporated throughout the course. Credit earned does not count towards any degree, nor does it transfer.

Prerequisite: ASC 91 Algebra Prep I, placement by math placement test or instructor approval.

Course Objectives: 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

Class Schedule: online

Instructor: Tracy Chisholm

Office: Nelson Science Center, Room 112
Phone: (701) 228-5424
E-mail: tracy.chisholm@dakotacollege.edu
Office Hours: by appointment
Website: www.chisholmalgebraprep.weebly.com

Required Text: *Beginning & Intermediate Algebra 5th Edition* by Tobey, Slater, Blair and Crawford with MyMathLab online learning software Pearson Publishing

MyMathLab Learning Software Website: www.mymathlab.com

Tentative Course Outline:
This schedule is designed to give you an idea of where you should be in the course. All of the homework assignments and quizzes are open through the end of the semester, but this timeline will help keep you on track to complete all of the material in the course.

Chapter	***Topics***	***Dates***
Chapter 3 Sections 3.1 – 3.6	Graphing & Functions	Weeks 1-3
Chapter 5 Sections 5.1 – 5.6	Exponents & Polynomials	Weeks 4-5
Chapter 6 Sections 6.1 – 6.7	Factoring	Week 6-8
Final Exam	COMPREHENSIVE	Week 8

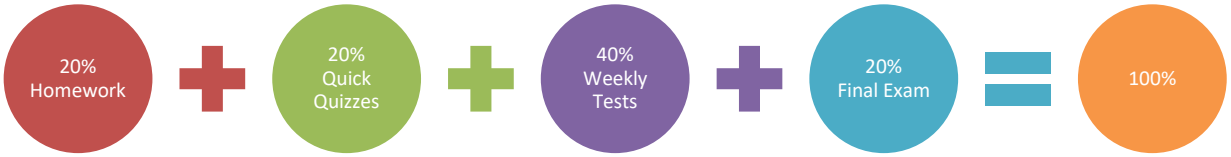
Course Requirements:
Learning algebra is an investment of time. Algebra is learned best by practice, reflect, and practice some more. Understanding the examples provided by the instructor and textbook is a good first step. However, to truly know the material, you should be able to look at a problem, know how to proceed, and carry out the steps WITHOUT ASSISTANCE. The independent practice and graded homework provide opportunities for you to get to that point. Passing grades on quizzes and tests demonstrate that you have indeed learned the skills taught.

Specific sections will be assigned each week and they will be due Sunday night at 11:59 PM, Central Daylight Time of that week. Do not leave all of these until Sunday, but instead make sure to do the work well in advance.

Homework Assignments: These are graded assignments that can be done multiple times. Only the highest score will be calculated into the student's overall grade. If the assignment is done after the posted due date, 30% will be deducted from your score.

Quick Quizzes: Each lesson and homework is followed by a graded quiz of three questions. The due dates correspond with those of the related homework assignments.

Tests: An *ungraded* pre-test is given early in the course. Six 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.



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

Relationship to Campus Theme: This course develops 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. Students need to set up or select an environment conducive to study and testing.
- Tests will be available for a limited period of time. Students should complete the tests without the use of notes or other materials.

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, please let me know as soon as possible. You can also contact the Disability Service coordinator at 701-228-5672.

The syllabus is a living document that is subject to change. Students will be informed of any changes.