

ASC 092 Beginning Algebra

Online

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

Credits: 3 semester credits

Prerequisite(s): none.

Delivery Method: Online

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
- 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 with no x^2 coefficient
- Plot points, graph linear equations, and find slope of a line

Instructor: Jan Nahinurk

Office: Online

Office Hours: Use the eMail tool within the online course to communicate with the instructor. Course eMail messages will be checked daily, Monday through Friday.

Technical Problems: If you have a technical problem, contact the Distance Education office by calling 1-701-228-5479 or 1-888-918-5623 (toll-free) or the Wimba/Moodle help desk: **1-866-940-0065**

Email: Use online course eMail tool.

Class Schedule: Online

Textbook: Miller, O'Neill, Hyde, Introductory Algebra, 2nd Ed – E-text with ALEKS; ISBN 0077409795

Order by email: bookcell@dakotacollege.edu or call 1-701-228-5458.

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.

Independent practice: Students can practice by completing “MyPie” learning activities. The problems are linked to explanations, e-textbook material, and video demonstrations.

Homework assignments: Homework assignments are graded. These assignments can be done multiple times; only the highest score will be used in grading.

Graded quizzes: Homework assignments are followed by graded quizzes of 10-15 questions. Quizzes are limited to 30 minutes and may only be taken one time.

Tests: Four 60-minute exams and a final comprehensive exam are given.

Tentative Course Outline:

HOMEWORK1_ S1.2-1.2	HOMEWORK7_ S3.1-3.2
<ul style="list-style-type: none">• QUIZ 1 –August 27	<ul style="list-style-type: none">• QUIZ 7 – September 20
HOMEWORK2_ S1.3-1.5	HOMEWORK8_ S3.3-3.4

<ul style="list-style-type: none"> • QUIZ 2 – August 30 <p>HOMEWORK3_S1.6</p> <ul style="list-style-type: none"> • QUIZ 3 – September 1 <p><i>TEST 1 - September 3</i></p> <p>HOMEWORK4_S2.1-2.3</p> <ul style="list-style-type: none"> • QUIZ 4 – September 8 <p>HOMEWORK5_S2.4-2.5</p> <ul style="list-style-type: none"> • QUIZ 5 – September 10 <p>HOMEWORK6_S2.8</p> <ul style="list-style-type: none"> • QUIZ 6 – September 13 <p><i>TEST 2 - September 15</i></p>	<ul style="list-style-type: none"> • QUIZ 8 – September 22 <p>HOMEWORK9_S5.1-5.4</p> <p>QUIZ 9 – September 24</p> <p><i>TEST 3 - September 27</i></p> <p>HOMEWORK10_S5.5-5.7</p> <ul style="list-style-type: none"> • QUIZ 10 – October 1 <p>HOMEWORK11_S6.1-6.2</p> <ul style="list-style-type: none"> • QUIZ 11 – October 4 <p>HOMEWORK12_6.5,6.6</p> <ul style="list-style-type: none"> • QUIZ 12 – October 6 <p><i>TEST 4 - October 8</i></p> <p>FINAL EXAM - October 13</p>
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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.
- All quizzes and exams can be taken on any computer with Internet access.
- Students need to set up or select an environment conducive for testing (e.g. distraction-free area at home, a computer lab at a library, etc.)
- Students can take the tests at any time between the given dates and times.
- Each quiz/test will be available for a limited period of time (15-60 minutes) depending upon the number of questions.

Evaluation:

Grades are based on total points earned and include the points earned on practice exercises. Grades will be calculated by dividing total points earned by total points possible.

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 cooperate on oral or written examinations or work together on evaluated assignments without authorization.

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.