

**CP04783 Beginning Algebra
Sections A and B
College Prep
Arkansas Northeastern College
First Day Handout**

Instructor: Ann Ball

Term: Spring 2010

Office: Room L-49

Class Meeting Days: Monday and
Wednesday

Phone: 870-762-1020, ext 1066

Class Meeting Hours: 10:50 and
12:15

E-Mail: aball@smail.anc.edu

Class Location: L105

Office Hours: posted on the door of room L-49

- I. **Welcome to Beginning Algebra. I plan for you to have a stress free learning environment in which you feel that you can ask questions as you learn algebraic problem solving techniques.**

- II. **Course Description: Cp courses are required by law if placement test results indicate a need for College Prep. Cp courses are graded on the following scale: A⁺, B⁺, C⁺, D⁺ and F. In sequential courses a grade of C or better will be required to advance to the next Level. Courses which carry a CP prefix are not applicable for transfer or graduation and are not figured into the students G.P. A. unless they have a grade of F. This course is designed as an introductory algebra course. Topics include; the real number system, polynomials, linear equations and inequalities, absolute values, factoring, and algebraic fractions.**

- III. **Course Overview: A study of the fundamentals of algebra, simplification of algebraic expressions using properties of real numbers and order of operations; graphing; exponents; linear equations; and scientific notation.**

- IV. **Course Rationale: Beginning Algebra is designed as the prerequisite for Intermediate Algebra. Also, Beginning Algebra provides the opportunity for students to develop creative and logical thinking while enhancing their understanding of the effects of math upon the individual, society, and the environment.**

- V. **Course Objectives**
The student will solve linear equations and inequalities; factor polynomials of all kinds; interpret and graph polynomial equations. The student will identify polynomials and use them in the

different mathematical operations. The student will take the compass test at the end of this course and score into Intermediate Algebra.

VI. Course Prerequisites

The students will be prepared for Beginning Algebra if they complete the Basic Math course CP 04003 with a C or better or if they take one of the following test and make the appropriate score.

Act	math score of 16-17
Asset	score of 40 – 45 using test type N
Compass	score of 22- 33 using test type A

VII. Course Credits

This is a college prep class; therefore, upon completion of Beginning Algebra (CP 04783) the student will not receive undergraduate credit.

VIII. Required Texts and Materials

Elementary Algebra by Sullivan/Struve/Mazzarella: published by Pearson/Prentice Hall
The student must purchase the book and the Software package to connect to the Internet (My Math Lab). A calculator is optional.

IX. Basis for Final Grade:

Assessment	Percent of Final Grade
Attendance	10%
Homework	20%
Chapter Test	50%
Final Exam	20%
	100%

Grading Scale (%)	
94-100	A
88 - 93	B
80 - 87	C
60 - 79	D
0 - 59	F

X. Grade Dissemination

At anytime the students can access homework grades, test grades, and averages in the gradebook on the CourseCompass website where the students complete their homework. Mid-term and final grades can be accessed using Campus Connect on myANC. Please note that scores returned mid-term are unofficial grades. If you need help accessing myANC contact the ANC Helpdesk by email: ANChelp@smail.anc.edu.

XI. Course Policies: Grades

Late Work and Make-up Policy:

There are no make-ups for in-class bonus quizzes or the final exam. Homework can be made up online past the due date but must be made up by the last day of regular classes at the end of the semester. If a student misses a chapter test, he/she must make the test up within two weeks of the date the test was given. If a student scores less than 80% on a test, he/she can retake the test within two weeks for a make-up score no higher than 80%. Final exams must be taken on the time and date appointed. All students will be post tested using the computerized Compass Test. If students miss class the day of the Compass Test, they must make it up on their own time.

Extra Credit Policy: Students can earn five bonus points to add to the final average. Three points for being in class and getting at least two quiz questions correct and two points for having the online homework completed before class time. Students receive five points added to the test if they take the test on the scheduled day.

Grades of "Incomplete":

The current College policy concerning incomplete grades will be followed in this course. Incomplete grades are given only in situations where unexpected emergencies prevent a student from completing the course and the remaining work can be completed the next semester. Your instructor is the final authority on whether you qualify for an incomplete. Incomplete work must be finished by the end of the subsequent semester or the "I" will automatically be recorded as an "F" on your transcript.

I will adhere to the above policy on incomplete grades.

XII. Course Policies: Technology and Media

Email: Arkansas Northeastern College has partnered with Google to host email addresses for ANC students. myANCmail accounts are created for each student enrolled in the current semester and is the email address your instructor will use to communicate with you. Access your email account by going to <http://mail.google.com/a/smail.anc.edu> and using your first and last names, separated by a period for your username. Your default password is the last six digits of your Student ID. If you cannot access your student email, contact the MITS department at 762-1020 ext 1150 or ext 1207 or send an email to ANChelp@smail.anc.edu.

The student must have an e-mail account to enroll in MyMathLab. Also, the student can communicate days absent or other pertinent information to the instructor by e-mail. I will check my e-mail daily including weekends.

Internet: This course has a web component on myANC.

This is not an internet course. Yet this course does use the internet to work homework and to turn homework in. Also the student can get help for homework by e-mailing the instructor and by e-mailing the instructor using mymathlab.

Laptop Usage: I prefer the student refrain from using laptops during class lecture.

Classroom Devices: Students can use any type of calculator during this course during class time or during test time. They do not have to use a calculator if they don't feel the need.

Computer Labs: In addition to general-purpose classrooms, a number of computer laboratories are provided for instructional and student use. These networked laboratories are state-of-the-art and fully equipped with computers, printers, Internet connections and the latest software. The labs are open to students enrolled in one or more credit hours at the College.

Technology Support: ANCHelp@smail.anc.edu. A lab assistant is generally present in the computer lab in B202 for assistance in using the College computers. These assistants cannot help you with course assignments; specific questions regarding the technology requirements for each course should be directed to the instructor of the course. Problems with myANC or College email accounts should be addressed by email to



XIII. Course Policies: Student Expectations

Disability Access: Arkansas Northeastern College is committed to providing reasonable accommodations for all persons with disabilities. This First Day Handout is available in alternate formats upon request. Students with disabilities who need accommodations in this course must contact the instructor at the beginning of the semester to discuss needed accommodations. No accommodations will be provided until the student has met with the instructor to request accommodations. Students who need accommodations must be registered with Dr. Blanche Sanders or Suzanne Robinson at the Learning Assistance Center, Room L104.

Attendance Policy: Attendance will count 10% of your grade. Each Student is expected to attend class and complete all assignments. Plan to be in class every day to avoid problems later in semester. The student must log on to mymathlab daily to work homework.

Professionalism Policy: A lecture will be given covering new material and homework will be assigned. The student is expected to have the homework completed by the next class meeting. If problems arise while trying to complete the assignment, the student should consult the instructor during office hours or at the beginning of the next class meeting. Homework will be done on a computer and graded by the computer. The computer will show the due date for homework. Disruptive or disrespectful behavior will not be tolerated. Please turn all pagers and cell phones off during class. Have your pencils sharpened and be ready for class before the class begins. If the student has to leave class and can return please do so. Please do not bring children to class with you. Please put your full name on papers turned in. Please tell me if you expect an emergency

call, and put your cell phone on vibrate when you come to class. If you have to answer it, please step into the hall and after you are finished please come back to class. If you have to leave early, tell me before class.

Academic Conduct Policy:

Academic dishonesty in any form will not be tolerated. If you are uncertain as to what constitutes academic dishonesty, please consult ANC's Student Handbook (http://www.anc.edu/docs/anc_handbook.pdf) for further details. Students are expected to do their own work. Plagiarism, using the words of others without express permission or proper citation, will not be tolerated. Any cheating (giving or receiving) or other dishonest activity will, at a minimum, result in a zero on that test or assignment and may be referred, at the discretion of the instructor, to the Department Chair and/or Vice President of Instruction for further action.

Working in groups is one of the best ways to enhance learning, Therefore students working on homework in groups is not cheating.

Learning Assistance Center: The Learning Assistance Center (LAC) is a free resource for ANC students. The LAC provides drop-in assistance, computer tutorials and audio/visual aids to students who need help in academic areas. Learning labs offer individualized instruction in the areas of mathematics, reading, writing, vocabulary development and college study methods. Tutorial services are available on an individual basis for those having difficulty with instructional materials. The LAC also maintains a shelf of free materials addressing specific problems, such as procedures for writing essays and term papers, punctuation reviews, and other useful materials. For more information, visit the LAC website at <http://www.anc.edu/LAC> or stop by room L104 in the Adams/Vines Library Complex.

Other Student Support Services: Many departments are ready to assist you reach your educational goals. Be sure to check with your advisor; the Learning Assistance Center, Room L104; Student Support Services, Room S145; and Student Success, Room L101 to find the right type of support for you.

XIV. Important Dates to Remember

Last Day to Add/Drop Classes:	Tue, January 12, 2010
Mid – Term Week:	Week of March 1, 2010
Withdrawal Deadline:	Thur, April 1, 2010
Final Exam Week:	May 6 and 10 th -12 th

XV. Unit and Instructional Objectives

Unit I, Operations on real numbers and algebraic expressions

Rationale: When the students enter this course, they have experienced using mathematical operations on real numbers. In this section the student will apply these concepts to integers, rational numbers, and irrational numbers. The student will explore these concepts over adding, subtracting, multiplying, and dividing.

Objectives: The student will be able to:

- 1) classify the real number system including integers, rational numbers, irrational numbers, and whole numbers.
- 2) add, subtract, multiply, and divide over the real number system.

- 3) use the order of operations on the real number system.
- 4) simplify algebraic expressions using real numbers.
- 5) compare absolute value of a real number.
- 6) use inequality symbols correctly.
- 7) simplify expressions using the order of operations.
- 8) simplify expressions that have exponents and parenthesis.

Activities:

All homework will be assigned by the instructor and posted on the mymathlab website. The students will go to this website to retrieve their homework, work it, and turn it in.

Assessment: The test over this chapter will be about 25 questions. All tests will be worth 100 points and will be graded on whether the question is right or wrong. During the study of this unit bonus quizzes are designed to assess students' knowledge based on the homework.

Unit II, Equations and inequalities in one variable.

Rationale: The very basis of Beginning Algebra is solving linear equations and inequalities. If the students can do these skills, they can expand their knowledge to nonlinear equations and inequalities. Therefore this section will give the students knowledge and experience in solving linear equations and inequalities.

Objectives: The student will be able to:

- 1) solve linear equations using addition and multiplication of integers.
- 2) solve linear equations that involve fractions and decimal
- 3) solve linear inequalities in one variable using addition and multiplication.
- 4) evaluate formulas and solve formulas for a variable.

Activities:

All homework will be assigned by the instructor and posted on the mymathlab website. The students will go to this website to retrieve their homework, work it and turn it in. The homework will be graded by the computer.

Assessment: The test over this chapter will be about 20 questions. All tests will be worth 100 points and will be graded on whether the question is right or wrong. During the study of this unit bonus quizzes are designed to assess students' knowledge based on the homework.

Unit III, Introduction to graphing and equations of lines.

Rationale: The College Algebra course uses graphing skills. The students are either graphing or working on problems that pertain to graphing. With this in mind the students will be introduced to graphing using the rectangular coordinate grid and graphing of polynomials and functions.

Objectives: The student will be able to:

- 1) graph equations in two variables using the three basic methods: graphing by plotting points, graphing using x and y intercepts, and graphing using the slope and the y intercept form.

- 2) interpret slopes of lines from a graph and from an equation.
- 3) identify parallel and perpendicular lines by looking at graphs and equations.
- 4) graph linear inequalities in two variables using the three basic methods of graphing.

Activities:

All homework will be assigned by the instructor and posted on the mymathlab website. The students will go to this website to retrieve homework, work their homework and turn it in to the instructor. All homework will be graded by the computer.

Assessment: The test over this chapter will be about 20 questions. All tests will be worth 100 points and will be graded on whether the question is right or wrong. During the study of this unit bonus quizzes are designed to assess students' knowledge based on the homework.

Unit IV: Exponents and polynomials:

Rationale: In order for a student to succeed in Intermediate Algebra the student must be familiar with polynomials and must understand the concepts of adding, subtracting, multiplying, dividing, and simplifying all types of polynomials. In this section the student will explore these concepts and become familiar with them.

Objectives: The student will be able to:

- 1) identify the different polynomials.
- 2) simplify monomials that have integer exponents.
- 3) add, subtract, multiply, and divide the different polynomials, including monomials.
- 4) apply exponent rules to polynomials and explore scientific notation.
- 5) multiply monomials using the product and the power rules.
- 6) convert decimal notation to scientific notation and scientific notation to decimal notation.
- 7) use scientific notation to multiply and divide.

Activities:

All homework will be assigned by the instructor and posted on the mymathlab website. The students will go to this Website to retrieve their homework, work it and turn it in.

Assessment: The test over this chapter will be about 20 questions. All tests will be worth 100 points and will be graded on whether the question is right or wrong. During the study of this unit bonus quizzes are designed to assess students' knowledge based on the homework.

Unit V: Radicals and rational exponents:

Rationale: The ability to solve nonlinear equations is essential in the everyday world. One of the methods of solving nonlinear equations is factoring. In this section the student will factor nonlinear equations (polynomials and functions) using several methods.

Objectives: The student will be able to:

- 1) factor using the greatest common factor.
- 2) factor by grouping.
- 3) factor by trial and error.
- 4) factor completely.
- 5) factor special products
- 6) solve equations by factoring using several methods.

Activities:

All homework will be assigned by the instructor and posted on the mymathlab website. The students will go to this website to retrieve their homework, work it and turn it in.

Assessment: The test over this chapter will be about 20 questions. All tests will be worth 100 points and will be graded on whether the question is right or wrong. During the study of this unit bonus quizzes are designed to assess students' knowledge based on the homework.

On the following page is a tentative schedule for this class and may be changed at the instructor's discretion.

BEGINNING ALGEBRA
TENTATIVE SCHEDULE
SPRING 2010

JANUARY

Mon	11	First Day Handout Sections 1.2 and 1.3	Due online Wed. 13
Wed	13	1.4, 1.5, and 1.6	Due online Wed. 20
Mon	18	School Closed	
Wed	20	1.7 and 1.8	Due online Mon 25
Mon	25	2.1	Due online Mon. Feb. 1
Wed	27	Test Chapter 1	

FEBRUARY

Mon	1	2.2	Due online Wed. 3
Wed	3	2.3	Due online Mon 8
Mon	8	2.4	Due online Wed. 10
Wed	10	2.8	Due online Wed. 17
Mon	15	School Closed	
Wed	17	3.1	Due online Wed 24
Mon	22	Test Chapter 2	
Wed	24	3.2	Due online Mon. March 1

MARCH

Mon	1	3.3 and 3.4	Due online Wed. 3
Wed	3	3.5	Due online Mon. 8
Mon	8	3.6 and 3.8	Due online Wed. 10
Wed	10	5.1	Due online Wed. 17
Mon	15	Test Chapter 3	
Wed	17	5.2	Due online Mon. 29
Mon	22	Spring Break School Closed	
Wed	24	Spring Break School Closed	
Mon	29	5.3	Due online Wed. 31
Wed	31	5.4	Due online Mon. April 5

APRIL

Mon	5	5.5 and 5.6	Due online Wed. 7
Wed	7	6.1	Due online Wed. 14
Mon	12	Test Chapter 5	
Wed	14	6.2	Due online Mon. 19
Mon	19	6.3	Due online Wed. 21
Wed	21	6.4 and 6.5	Due online Mon. 26
Mon	26	6.6	Due online Wed. 28
Wed	28	Review Chapter 6	

MAY

Mon	3	Compass Test (or Wed. 5)	
Wed	5	Test Chapter 6 (or Mon 3)	

CHECK SCHOOL EXAM SCHEDULE FOR FINAL EXAM