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Course Objectives:

1. To develop proficiency in algebra by:
 - a. solving and graphing linear equations and inequalities
 - b. factoring polynomials in one variable
 - c. recognizing functionality; find domain & range of a relation, evaluate a function & graphing basic functions
 - d. solving quadratic, rational, and radical equations
 - e. simplifying exponential, rational, and radical expressions
 - f. solving linear, rational, radical, and quadratic applications using algebraic processes
2. To develop problem solving skills

Course Description: This developmental algebra course covers factoring, exponential, radical, and rational expressions; quadratic, radical, rational equations and compound inequalities; further study of functions and graphs, including quadratic and other basic functions; and interwoven relevant problem solving.

Required Textbook: *College Algebra with Intermediate Algebra - A Blended Course* by Beecher, Penna, Johnson, Bittinger, Pearson. 1st Edition. This textbook is available in electric form within myMathLab. You also have the option to purchase a hard copy of the textbook.

Prerequisites: Beginning Algebra (MATH 0053) with a C or better, appropriate module completion in Algebra I (MATH 0063), recommendation by math advisement, or appropriate placement scores. A good understanding of the concepts from Beginning Algebra is expected.

Grading for this Course: The numerical grade comes from the following sources:

- + *Unit Exams:* There will be two unit exams, each worth 100 points (total: 200 points)
- + *Homework:* All homework scores (except the Review sections) will count towards your Homework grade and be scaled out of 50 points.
- + *Quizzes:* Periodical quizzes will be graded and scaled to 100 points.
- + *Final Exam:* The *final exam* is worth 200 points and will be comprehensive. Percentage score will be this numerical grade out of 550 points.

Participation Policy: Participation is expected and lack of participation will invariably prove detrimental to your grade and your learning experience. Regardless of the reason for not being able to access myMathLab, you will be responsible for any missed assignments, material and announcements. Check your NWACC email daily.

Homework/Quiz Policy: You are *expected* to work all homework problems assigned by the due date listed on myMathLab. Since this is a three credit course and is only an 8 week class, you should expect to spend around twelve hours each week on homework and general overview of topics being covered (spread this time throughout the week). This is considered the norm for a college level course meeting for only half a semester. Homework results are recorded within *myMathLab*. Once the exam period for those sections is completed, the homework assignments for those sections will no longer be available. Therefore, it is very important to organize yourself so that you will receive the most credit for these assignments. Quizzes will be posted periodically on *myMathLab*. You will have a few attempts on each, before the due date. No partial credit is given on quizzes.

Exam Policy: All exams will be taken using ProctorU, with a cost of \$4.25 *per* exam attempt. The exam will be open for a week. You can take each exam up to twice but you will have to take the first attempt in the first half of the testing period. Your recorded grade is the best score of the two attempts. Read the "Information on classes that are onLine or Live Streaming" located on my website (<http://gkfoster.com>) for details on the expectations for taking the exam via ProctorU. Notes will *not* be allowed on exams. Only approved calculators are permitted on the Exams. The use of cell phones during testing time is prohibited. Once the exam has started, you cannot leave your computer for *any* reason. Partial credit will be added to each exam based on work shown. Therefore, show all work on sketch paper for each problem then scan into a PDF file and email to me within 20 minutes of completion of the exam. The better you organize your work, the easier for me to give partial credit.

Makeup Policy: There will be no make ups on exams, quizzes or homework. I may drop some of the quizzes, depending on the number given. All exams will count, since you will have a good length of time to complete each exam and can take each exam a second time. Given the amount of time allowed to complete assignments, quizzes, and exams, there is no reason to miss any exam or not complete any homework assignment or quiz.

Available Tutoring: Tutoring at the Math Center is only offered via email (mathcenter@nwacc.edu). There are many online sources (youTube, etc). Also, please, contact me during my office hours to get help or email me anytime.

Methods of Instruction: Since this is an OnLine course, instruction will take place through readings and completion of assigned problems, which includes Multimedia requirements. I am available during my office hours via Teams or in person, if you are on campus or by email anytime. When emailing, please state which class you are in. All information regarding this course, including notices on Exam and Quizzes, will be emailed to your NWACC account, so check your email daily while in this class. Canvas is not used for this class since we use myMathLab.

Course Schedule: Below is a week-by-week breakdown of course coverage. Schedule is subject to change and email notice will be given if that happens.

Week	Dates	Coverage
1	Aug 23 – 27	R.3 Exponential Notation and Order of operations R.4 Introduction to Algebraic Expressions R.7 Properties of Exponents and Scientific Notation 1.1 Solving Equations 1.3 Applications and Problem Solving 1.4 Sets, Inequalities, and Interval Notation 2.1 Graphs of Equations
2	Aug 30 – Sept 3	2.2 Functions and Graphs 2.3 Finding Domain and Range 2.5 Linear Functions: Graphs and Slope 2.6 More on Graphing Linear Equations 2.7 Finding Equations of Lines; Applications 3.3 Solving by Elimination
3	Sept 6 – 10	<i>Labor Day</i> 3.7 Systems of Inequalities and Linear Programming 4.1 Introduction to Polynomials and Polynomial Functions 4.3 Intro to Factoring 4.4 Factoring Trinomials: $x^2 + bx + c$ 4.5 Factoring Trinomials: $ax^2 + bx + c, a \neq 1$
4	Sept 13 – 17	<i>Exam #1 (Sections 1.1 – 4.5)</i> 4.6 Special Factoring 4.7 Factoring: A General Strategy
5	Sept 20 – 24	4.8 Applications of Polynomial Equations and Functions 5.1 Rational Expressions and Functions: Multiplying, Dividing, and Simplifying 5.5 Solving Rational Equations 5.6 Applications and Proportions 6.1 Radical Expressions and Functions 6.2 Rational Numbers as Exponents 6.3 Simplifying Radical Expressions
6	Sept 27 – Oct 1	6.4 Addition, Subtraction, and More Multiplication 6.5 More on Division of Radical Expressions 6.6 Solving Radical Equations 6.7 Applications Involving Powers and Roots 6.8 Increasing, Decreasing and Piecewise Functions 7.3 The Complex Numbers 7.4 Quadratic Equations, Functions, Zeros, and Models
7	Oct 4 – 8	7.5 Analyzing Graphs of Quadratic Functions <i>Exam #2 (Sections 4.6 – 7.5)</i>
8	Oct 11 – 15 Finals Week	Final Exam – taken using ProctorU by Thursday, October 14