

# **Course Information**

| Title:        | Elementary Algebra Foundations                                       |
|---------------|--|
| Section:      | Т8   |
| CRN:          | 30138  |
| Credits:      | Three TRCC Credits   |
| Room:         | E221   |
| Day/Time:     | MW 9:30 am-10:45 am  |
| Office Hours: | M W 8:00-9:30 am Adjunct Faculty Office D 207 or by appointment      |
|               | T R 11:30 am-12:30 pm Adjunct Faculty Office D 207 or by appointment |
|               |  |

Note: T (12:30-1:45pm)/R (12:30-2:50) You can find me in Room D210

# **Course Description**

This Elementary Algebra developmental course prepares students for college level courses. Designed to build understanding and skills in algebra, it also provides embedded pre-algebra support. The course develops understanding of number system, different representations of numbers, operations on numbers, including numbers expressed in scientific notation. The course introduces functions, their graphs, and modeling relationships between quantities using functions. Topics also include solving equations and manipulating expressions with integer exponents, radicals, solving, analyzing and modeling linear equations, systems of linear equations. Pythagorean Theorem and geometric formulas are used to solve real world problems.

## **Required Materials:**

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- **<u>Required Textbook</u>**: Baratto, Bergman, & Hutchinson *Elementary and Intermediate Algebra,* 5th ed. New York: McGraw-Hill, 2014.
- **<u>Required</u>**: You <u>must</u> purchase the book (or ebook) with the ALEKS code for online access
  - <u>COURSE CODE</u>: UARG9-M3393 NOTE: You may choose to use either a physical textbook or an ebook If you use an ebook, you must have an electronic device with which to access ebook during all classes
- Scientific calculator
  - > NOTE: You may not use the calculator on your phone, iPad, laptop, etc for in class work
  - > NOTE: You may not share a calculator with a classmate during any assessment
- $\circ$  3-ring Binder (recommended to keep course materials organized) with 4 section dividers
- pen and pencil

# Academic Integrity

The effective operation of any organization is dependent on the honesty and goodwill of its members. In an organization devoted to the pursuit of knowledge, acting with integrity is essential to effective teaching and learning. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the College. To emphasize the importance of academic integrity, Three Rivers Community College adheres to the Student Code of Conduct and Discipline Policy, as provided by the Connecticut State Colleges and Universities (CSCU) Board of Regents for Higher Education.

Since collaboration is central to the learning community, Three Rivers wishes to emphasize that this policy is not intended to discourage collaboration when appropriate, approved, and disclosed.

For further information, see: http://catalog.threerivers.edu/content.php?catoid=2&navoid=54#Academic\_Integrity\_Policy

Board of Regents for Higher Education and Connecticut State Colleges and Universities Policy Regarding Sexual Misconduct Reporting, Support Services and Processes Policy:

Public Act No. 14–11: An Act Concerning Sexual Assault, Stalking and Intimate Partner Violence on Campus:

"The Board of Regents for Higher Education (BOR) in conjunction with the Connecticut State Colleges and Universities (CSCU) is committed to insuring that each member of every BOR governed college and university community has the opportunity to participate fully in the process of education free from acts of sexual misconduct, intimate partner violence and stalking."

## Title IX Statement of Policy:

"Title IX of the Education Amendments Act of 1972 protects students, employees, applicants for admission and employment, and other persons from all forms of sex discrimination, including discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. All students are protected by Title IX, regardless of their sex, sexual orientation, gender identity, part or full-time status, disability, race, or national origin, in all aspects of educational programs and activities."

Please Report Student Incidents to: Student Diversity and Title IX Coordinator Admissions Welcome Center \* Office A116 574 New London Turnpike, Norwich CT 06360 860.215.9255

#### Course Objectives and Outcomes

#### At the completion of MAT\*095, the student will be able to do the following -

#### Rational Numbers:

- 1) Identify and distinguish between rational and irrational numbers.
- 2) Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram,

and estimate the value of expressions (e.g.,  $\pi^2$  ,  $\sqrt{8}$  ).

#### Expressions and Equations with Polynomials, Rational and Radical Expressions, and Integer Exponents:

- 1) Interpret parts of an expression, such as terms, factors, and coefficients and evaluate expressions for a given replacement value(s).
- 2) Add, subtract, and multiply polynomials. Divide polynomials by a monomial
- 3) Construct and interpret equations as two expressions set equal to each other.
- 4) Manipulate formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's Law V = IR to highlight the resistance, R.
- 5) Know and apply the properties of integer exponents to generate equivalent numerical expressions.

For example, 3<sup>2</sup> X 3<sup>-5</sup> = 3<sup>-3</sup> = 
$$\frac{1}{3^3} = \frac{1}{27}$$

- 6) Use square root symbols to represent solutions to equations of the form  $x^2 = p$ , where p is a positive rational number
- 7) Evaluate square roots of perfect squares
- 8) Know that numbers such as  $\sqrt{2}$  are irrational
- 9) Express very large or very small quantities in scientific notation
- 10) Perform operations with numbers expressed in scientific notation

#### Linear Equations in One Variable

- 1) Solve linear equations and inequalities in one variable.
- 2) Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.
- 3) Create linear equations and inequalities in one variable and use them to solve real world applications.
- 4) Recognize examples of linear equations in one variable with one solution, infinitely many solutions or no solutions.

#### Linear Equations in Two Variables

- 1) Interpret the rate and unit rate as the slope of the graph.
- 2) Derive the equation y = mx + b for a line intercepting the vertical axis at b and having a slope of m.
- 3) Identify parallel and perpendicular lines based on their slopes.
- 4) Graph a linear equation in two variables.
- 5) Construct a linear equation to model a linear relationship between two quantities. Determine and interpret the rate of change and initial value from a description of a relationship or from two (x, y) values, including reading these from a table or graph.
- 6) Construct linear equations given a graph, a description of a relationship, or two input-output pairs (including reading these from a table) using pointslope form and slope-intercept form.

#### Systems of Linear Equations

- 1) Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs.
- Solve systems of two linear equations in two variables algebraically (using both substitution and addition methods) graphically (by hand and/or using technology). Solve simple cases by inspection. (For example, 3x + 2y = 5 and 3x + 2y = 6 has no solution because 3x + 2y cannot simultaneously be 5 and 6).
- 3) Recognize systems of linear equations with one solution, infinitely many solutions, or no solutions.
- 4) Solve real-world problems leading to two linear equations in two variables.

#### **Functions**

- 1) Understand that a function is a rule that assigns to each input value exactly one output and that the graph of a function is the set of ordered pairs consisting of an input and the corresponding output.
- 2) Interpret the equation y = mx + b as defining a linear function, whose graph is a straight line.
- 3) Use functions to model linear relationships between quantities.
- 4) Use function notation. Evaluate functions for inputs in their domains.
- 5) Graph linear functions and show inputs.
- 6) Recognize that linear functions have a constant rate of change and interpret the rate of change in the context of the problem

#### Applications

- 1) Apply geometric formulas for two- and three-dimensional figures such as rectangles, circles, rectangular solids, cylinders, spheres, etc.
- 2) Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two dimensions.

# Course Content:

You will be responsible for the following sections of the textbook:

### Chapter 0: <u>Prealgebra Review</u>

- 0.1 A Review of Fractions
- 0.2 Real Numbers
- 0.3 Adding and Subtracting
- 0.4 Multiplying and Dividing
- 0.5 Exponents and Order of Operations

### Chapter 1: From Arithmetic to Algebra

- 1.1 Transition to Algebra
- 1.2 Evaluating Algebraic Expressions
- 1.3 Simplifying Algebraic Expressions
- 1.4 Solving Equations with the Addition Property
- 1.5 Solving Equations with the Multiplication Property
- 1.6 Combining the Rules to Solve Equations
- 1.7 Linear Inequalities

### Chapter 2: Functions and Graphs

- 2.1 Formulas and Problem Solving
- 2.2 Sets and Set Notation
- 2.3 Two-variable Equations
- 2.4 The Cartesian Coordinate System
- 2.5 Relations and Functions
- 2.6 Tables and Graphs

### Chapter 3: Graphing Linear Functions

- 3.1 Graphing Linear Functions
- 3.2 The Slope of a Line
- 3.3 Linear equations
- 3.4 Rate of Change and Linear Regression (Objectives 1, 2, and 3 only)

### Chapter 4: Graphing Linear Functions

- 4.1 Graphing Systems of Linear equations
- 4.3 Systems of Equations in Two Variables

### Chapter 5: <u>Exponents and Polynomials</u>

- 5.1 Positive Integer Exponents
- 5.2 Integer Exponents and Scientific Notation
- 5.3 An Introduction to Polynomials
- 5.4 Adding and Subtracting Polynomials
- 5.5 Multiplying Polynomials
- 5.6 Dividing Polynomials (Objective 1 only)

### Chapter 7: <u>Radials and Exponents</u>

7.1 Roots and Radicals (Objectives 1, 2, and 4 only)

NOTE: This is the order in which the material appears in the textbook, and not the order in which we will necessarily cover the material. Please see "Tentative Calendar Schedule of Topic Coverage"

## Other Class Policies:

#### Cell phones or cell text devices, Apple Watches, beepers, music devices are not appropriate in class. They

should be turned off (or on vibrate for emergencies) and stored off the class desk. You may not use the calculator on your phone for assessments. Some students rely on taking photos of class notes with their phone; this is fine.

If you are using an eBook, you may use the electronic device of your choice to access that textbook during class time, but you will be expected to use that device ONLY to access the text and not for any other purpose. Any student found using an electronic device during class time for purposes other than class work, will lose all participation points for that class time.

### Attendance

You are expected to attend each class. Essential factors of your success in this course are your attendance and attention to the information shared in each class. I will teach material only once. Therefore, <u>if you miss a class you are responsible to obtain any missed information, notes, homework, etc</u> from another student in the class. You are responsible for homework being up to date upon your return to class. Written homework that is due on a day you miss class cannot be turned in late.

#### Please do not come in and out of class during class time.

In general, there are *no makeups*. If there is a problem, speak to me.

If you miss a major test/exam (and have a documented reason), you will need to make arrangements for a <u>make-up test</u> outside of class time. Arrangements for a make up test must be made <u>prior to the actual test date</u> or <u>within 24 hours of the absence</u>. Failure to make arrangements within 24 hours of the test will result in a test grade of <u>ZERO</u>.

<u>No makeups</u> for <u>QUIZZES</u> (This includes turning in take-home quizzes late; any out of class assignments will not be accepted late for any reason)

### **Special Arrangements**

If you have a disability that may require accommodations, services for students with disabilities are coordinated through the Counseling Center. In accordance with federal law, students with documented disabilities may request reasonable accommodations. Students are required to submit a Self Disclosure Form, provide documentation, and meet with a Disability Service Provider before the start of the semester, if possible. Please call the Counseling Center for more information.

Please provide me with documentation regarding accommodations as soon as possible.

### Please also note:

Any student who has difficulty affording groceries or accessing sufficient food to eat every day or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to contact the student services office for support. Furthermore, please notify me if you are comfortable in doing so. This will enable me to provide any other resources that I may possess.

## Other College Policies of Importance to you:

## Non-Discrimination Policy

Please refer to this site for details: http://www.trcc.commnet.edu/president/policies/college\_policies.shtml#Affirmative

## **Digication**

All students are required to maintain an online learning portfolio in Digication that uses the college template. See this site for further details: <a href="http://www.trcc.commnet.edu/Div\_IT/EducationalTechnology/Digication.shtml">http://www.trcc.commnet.edu/Div\_IT/EducationalTechnology/Digication.shtml</a>

## Inclement Weather Delays, Cancellations, and Closings

http://www.trcc.commnet.edu/president/policies/weather.shtml also check your TRCC email & BlackBoard

# **Evaluation Criteria and Grading Policy**

A student's course grade is based upon the following rubric:

Homework (this includes work in ALEKS) weighted @ 12% Quizzes weighted at 10% 3 exams weighted @ 12% each One major Quest (Unit III) weighted at 7% Final Exam weighted @ 20% In class activities weighted at 10% Class participation weighted @ 5%

The **FINAL COURSE AVERAGE** will be translated into a letter grade in accordance with the grade categories stated below.

| If the average is | then final grade is |  |
|-------------------|---------------------|--|
| 93 - 100          | A                   |  |
| 90 — 92           | A—                  |  |
| 87 — 89           | B+                  |  |
| 83 - 86           | В                   |  |
| 80-82             | B—                  |  |
| 77 — 79           | C+                  |  |
| 73 - 76           | С                   |  |
| 70 - 72           | C—                  |  |
| 66 — 69           | D+                  |  |
| 60 - 65           | D                   |  |
| Below 60          | F                   |  |

## HOMEWORK:

Remember in a college class <u>1 hour of class = 2-3 hours</u> of studying, homework, etc Best if you do a little every day

You are responsible for completing all homework neatly in your binder, **showing all work**. This applies to book work and online assignments. For the book work, you should always <u>check your answers at the end of the</u> <u>section for each example</u>. I should be able to see evidence of the fact that you have checked answers. Please come to class prepared with questions on each assignment.

Please organize your BINDER by <u>textbook sections</u>, ALL WORK for each section, whether done in class or at home, should be <u>together</u> in your binder. Clearly label each item/section. Start each section/item on a new page.

In addition to written homework you will be expected to read the appropriate section(s) of the text (or find an appropriate video online) and complete the "Check Yourself" and "Read your Text" exercises in each section. (See the "Calendar Schedule of Topic Coverage" pages of this syllabus for more details)

**CLASSWORK**: In class, you will be expected to do some individual work as well as some group work

### MATH K095-T8 TENTATIVE SCHEDULE OF TOPIC COVERAGE

(Fall, 2019 semester)

## Remember: <u>1 hour of class = 2-3 hours homework, studying etc</u> MANDATORY: <u>4 HOURS OF HW + REQUIRED # TOPICS IN ALEKS WEEKLY</u>

**Disclaimer:** The instructor maintains the right to adjust the course syllabus as needed. This syllabus provides a tentative framework. Therefore, these dates are subject to change as needed.

NOTE: CY: "Check Yourself": These will form the Basis for Class Discussion next class

You are to demonstrate that you have attempted each of these exercises.

<u>RYT</u>: "Read Your Text": These will help you to capture the important ideas in each section

<u>O</u>: ODD numbered exercise <u>EOO</u>: Every other Odd numbered exercise

**EO**: Every other exercise

If you prefer, you can find videos on "UTube", "KahnAcademy.com" or by using the ALEKS online access code on the topic instead of reading text. You still must take notes on the topic

Remember: HW is not complete unless each exercise has been completed and the answers have been checked

| Date         | Topic/In Class Work                               | HW Assignment Due Next Class  |
|--------------|---|---|
| W Aug 28     | Introduction to Course                            | Read Syllabus for detail; write down any questions                  |
| _            | Syllabus Review                                   | Complete pre-algebra review; Do ALEKS Initial Knowledge Check       |
|              | Pre-Algebra Review                                | <b>0.1</b> pp 10-11: #3-91, column 3 EO                             |
|              |   | <b>0.2</b> pp 19-20: #1-60 EOO                                      |
|              |   | 0.3 pp 28-29: #3-63: column 3 EO; #67-76 O                          |
|              |   | <b>0.4</b> pp 39-40: #3-71 column 3 EO; #73-76 O                    |
|              |   | Read, take notes 0.5 Do 0.5 CY: #1-5; 6-10, Do RYT                  |
|              |   | <b>Read</b> , take <b>notes 1.1</b> Do <b>1.1</b> CY: #1-8, Do RYT  |
|              |   | Read, take notes 1.2 Do 1.2 CY: #1-8, Do RYT                        |
| M Sept 2     | Labor Day Holiday: No classes                     |   |
| W Sept 4     | 0.5 Exponents & Order of Operations               | 0.5:pp 48-50: #1-75 EOO; #81-84 all; #85, 87, 91                    |
|              | 1.1 Transition to Algebra                         | 1.1:pp 63-66:#1-27 EOO;#41-53 O; #65-71 O;#73, 77                   |
|              | 1.2 Evaluating Algebraic Expressions              | 1.2:pp 75-79: #1-47 EOO; #51, 55, 57; #67-73 O; #75-83 O            |
|              |   | Read, take notes 1.3 Do 1.3 CY: #1-10, Do RYT                       |
| Week of 9/9  | Online (ALEKS) Quiz Order of Operations this week |   |
| M Sept 9     | More 1.2 Evaluating Algebraic Expressions         | 1.3:pp 87-90:#1-9 O;#11-69 EOO; #79, 81, 85, 87, 89, 95             |
|              | 1.3 Simplifying Algebraic Expressions             | Read, take notes 1.4 Do 1.4 CY: #1-14, Do RYT                       |
|              |   | Read, take notes 1.5 Do 1.5 CY: #1-7, Do RYT                        |
| W Sept 11    | 1.4 Solving Equations w Addition Prop             | 1.4:pp 102-106: #1-15 O; #23-69 EOO; #75, 77                        |
|              | 1.5 Solving Equations w Mult Prop                 | 1.5:pp 112-115:#1-39 EOO;#41-47 O; #59                              |
|              |   | Read, take notes 1.6 Do 1.6 CY: #1-12, Do RYT                       |
|              |   | <b>Read</b> , take <b>notes 1.7</b> Do <b>1.7</b> CY: #1-11, Do RYT |
| Week of 9/16 | Online (ALEKS) Quiz Solving Equations this        | week  |
| M Sept 16    | 1.6 Combining Rules to Solve Equations            | 1.6:pp 126-130: #1-61 EOO; #85, 87, 91, 95; #101-107 O              |
|              | 1.7 Solving Linear Inequalities                   | 1.7:pp 141-145:#1-75 EOO; #85, 89, 91, 93; #95-100 all              |
|              |   | Read, take notes 2.1 Do 2.1 CY: #1-8, Do RYT                        |
| W Sept 18    | 2.1 Formulas & Problem Solving                    | 2.1:pp 161-164: #1-23 O; #31, 33, 43, 45, 47                        |
|              |   | Review for Exam I: Complete and Correct all Unit I HW               |
|              |   | Start Exam I Review HW (see below)                                  |
| M Sept 23    | Review Unit I (Exam I)                            | Exam I Review HW:   |
|              |   | Study Chapter Summary pp 146-148                                    |
|              |   | Chapter 1 Summary Exercises: pp 148-150: #1-98 EOO                  |
|              |   | Other Exercises as needed for individual practice                   |
|              |   | ** Chapter 1 Book Test: p151: all                                   |
|              |   | ** Chapter 2 Summary Exercises: p 234 #1-14                         |
| W Sept 25    | <u>Exam I</u> : 0.5; 1.1 → 1.7; 2.1               | Read, take notes 2.4 Do 2.4 CY: #1-4, Do RYT                        |
|              |   | <b>Read</b> , take <b>notes 2.3</b> Do <b>2.3</b> CY: #1-9, Do RYT  |

\*\* REQUIRED Hand in on day of Unit Exam

Work must be complete and answers checked for full credit

For additional credit, redo any incorrect exercises

# Unit II

| Date          | Topic/In Class Work  | HW Assignment Due Next Class   |
|---------------|--|--|
| M Sept 30     | 2.4 The Cartesian Coordinate System  | 2.4:pp 102-106: #1-10 all; #11-33 O;#35-41 O; #43-46 all; #53          |
|               | 2.3 Two-Variable Equations   | 2.3:pp 186-190:#1-33 EOO;#48-50 all;#53;#55-60 all;#65, 67             |
|               |  | Read, take notes 2.5 Do 2.5 CY: #1-9, Do RYT                           |
|               |  | Read, take notes 2.6 Do 2.6 CY: #1-7, Do RYT                           |
| W Oct 2       | 2.5 Relations and Functions  | 2.5:pp 211-216:#1-10 EOO;#17-67 EOO #59,70,72,73: #74-76 all           |
|               | 2.6 Tables and Graphs  | 2.6:pp 225-230:#1-43 EOO;#45-49 0;#51;#54-60 all                       |
|               |  | Read, take notes 3.1 Do 2.5 CY: #1-12, Do RYT                          |
|               |  | Read, take notes 2.6 Do 2.6 CY: #1-11, Do RYT                          |
| Week of 10/7  | Online (ALEKS) Quiz Graphing Linear equation   | ons this week  |
| M Oct 7       | 3.1 Graphing Linear Functions  | <b>3.1:pp 102-106</b> : #1-10 all; #11-33 0;#35-41 0; #43-46 all; #53  |
|               |  | <b>Read</b> , take <b>notes 3.2</b> Do 3.2 CY: #1-11, Do RYT           |
|               |  | Read, take notes 3.4 Do 3.4 CY: #1 only, Do RYT                        |
|               |  | (Stop Reading after Example 1)   |
|               |  | Read, take notes 3.3 Do 3.3 CY: #1- & 2 only, Do RYT                   |
|               |  | (Stop Reading after Example 2)   |
| W Oct 9       | 3.2 The Slope of a Line  | 3.2:pp 279-284:#1-51 EOO; #55-57 all; #61, #71-78 all                  |
|               | 3.4 Rate of Change   | 3.4:pp 225-230:#1-8 all  |
|               | 3.3 Linear Equations   | 3.3:pp 294-298:#1-10 all; #59-65 all                                   |
|               |  | <b>Read</b> , take <b>notes 4.1</b> Do <b>4.1</b> CY: #1-6, Do RY T    |
|               |  | Read, take notes 4.2 Do 4.2 CY: #1-3, Do RY 1                          |
| Week of 10/14 | Online (ALEKS) Solving Systems this week   |  |
| M Oct 14      | 4.1 Graphing Systems of Equations  | <b>4.1:pp 347-351</b> :#1-13 0;#54 & 57                                |
|               | <b>4.2</b> Solving Equations in One Variable by                                      | 4.2:pp 358-362: #1-13 O  |
|               | Graphing   | <b>Read</b> , take <b>notes</b> 4.3: Do <b>4</b> .3 CY: #1-12, Do RY 1 |
|               |  | <b>Read</b> , take <b>notes 2.6</b> Do <b>2.6</b> CY: #1-4, Do RY 1    |
| W Oct 16      | <b>4.3</b> Systems of Equations in 2 Variables                                       | <b>4.3:pp 294-298:</b> #1-35 EOO                                       |
|               |  | Start Unit II Review HW  |
| M Oct 21      | Midterm Grades due to Registrar  |  |
| M Oct 21      | Review Unit II (Exam II)   | Study/ Review Chapter 2 Summary pp231-234                              |
|               |  | Do Chapter 2 Summary Exercises pp 234-238 as needed                    |
|               |  | anchapter 2 BOOK 1ES1 pp239-240 all                                    |
|               |  | Study/ Deview Chanton 3 Summery nr 226 220                             |
|               |  | Study/ Review Chapter 5 Summary pp526-529                              |
|               |  | **Chapter 3 BOOK TEST nn332-334 #1-6. #13-18                           |
|               |  | Chapter 5 book (201 pp32-334 #1-0, #13-16                              |
|               |  | Study/ Review Chapter 4 Summary pp 397-399                             |
|               |  | Do Chapter 4 Summary Exercises on 400-403 as needed                    |
|               |  | **Chapter 4 BOOK TEST pp403-405 #1-12                                  |
|               |  |  |
| W Oct 23      | <b>Exam II</b> : 2.3 $\rightarrow$ 2.6; 3.1 $\rightarrow$ 3.4; 4.1 $\rightarrow$ 4.3 | Do Cumulative Review Chapters 0-2 p 241 all                            |
|               |  | Read, take notes 3.3, 4.1 $\rightarrow$ 4.3                            |
|               |  | Do <b>3.3</b> CY: #3-10  |
|               |  | Do <b>3.4</b> CY: #2-5   |
|               |  | Do <b>4.1</b> <i>C</i> Y: #7   |
|               |  | Do <b>4.2</b> <i>C</i> Y: #6   |
|               |  | Do <b>4.3</b> CY: #5-9   |

\*\* REQUIRED Hand in on day of Unit Exam

Work must be complete and answers checked for full credit For additional credit, redo any incorrect exercises

# Unit III

| Date          | Topic/In Class Work                                   | HW Assignment Due Next Class                             |
|---------------|---|--|
| Week of 10/28 | Online (ALEKS) Quiz Applications of Systems this week |  |
| M Oct 28      | 3.3 Linear Equations                                  | 3.3:pp 294-298:#11-54 EOO; #55, 57                       |
|               |   | 3.4:pp 225-230:#9-19 O; #21, 23                          |
| W Oct 30      | 41]   | 4.1:pp 347-351:#33-38                                    |
|               | 42 Applications of Systems                            | 4.2:pp 358-362: #17, 18                                  |
|               | 4.2 (Applications) (3) (3) (3)                        | <b>4.3:pp 374-377</b> :#37-61 EOO                        |
|               | 4.5   | <b>4.4: pp 385-387</b> : #21, 23, 25, 27                 |
|               |   | Read, take notes 5.3: Do 5.3 CY: #1-6, Do RYT            |
| M Nov 4       | More on Applications of Systems                       | Correct & Complete all App HW 4.1 → 4.4                  |
| T Nov 5       | Last Day to Withdraw                                  |  |
| W Nov 6       | Review Unit III (Quest)                               | Study/ Review Chapter 3 Summary pp326-329                |
|               |   | **Do Ch 3 Summary Exercises pp 329-332 #37, 39; #45-73 O |
|               |   | **Chapter 3 BOOK TEST pp332-334 #7-12; #23, 24           |
|               |   | Study/ Review Chapter 4 Summary pp 397-399               |
|               |   | Do Ch 4 Summary Exercises pp 400-403 #33-43 O; #51, 53   |
|               |   | **Chapter 4 BOOK TEST pp403-405 #16-20                   |
| M Nov 11      | <u>Veteran's Day</u>                                  | No Class. Online Assignment                              |
| W Nov 13      | <u>Quest Unit III</u> : $3.3; 4.1 \rightarrow 4.3$    | Do Cumulative Review Chapters 0-3 pp334-336 all          |
|               | 5.3 Intro to Polynomials                              | 5.3:pp 436-438:#1-7 0; #13-37 EOO; #55-63 EOO            |
|               | 5.4 Addition & Subtraction Polynomials                | <b>5.4:</b> pp 444-446: #1-39 O; #61,63                  |

\*\* REQUIRED Hand in on day of Unit Exam Work must be complete and answers checked for full credit For additional credit, redo any incorrect exercises

# Unit IV <u>REVISED</u>

| Date         | Topic/In Class Work                        | HW Assignment Due Next Class                                    |  |
|--------------|--|---|--|
| M Nov 18     | Review 5.3 Intro to Polynomials & 5.4      | Correct & Complete all 5.3 & 5.4 HW                             |  |
|              | Addition & Subtraction Polynomials         |   |  |
|              | 5.1 Positive Integer Exponents             | 5.1: pp 414-418: #1-63 EOO; #69-79 O                            |  |
|              | 5.2 Integer Exps & Scientific Notation     | 5.2: pp 427-431: #1-81 EOO; #83-113 EOO; #121-124               |  |
|              | 5.5 Multiplying Polynomials                | <b>5.5:</b> pp455-459: #1-57 EOO; #61-75 O; #91, 103, 105       |  |
|              |  | Read (or watch videos), take notes,                             |  |
|              |  | do CY (#1 & 2 only) & RYT for 5.6 (Obj 1 only)                  |  |
|              |  | Work on previously assigned Cumulative Reviews                  |  |
|              |  | See Exam Review on BlackBoard                                   |  |
|              |  | Start Unit IV Review HW   |  |
|              |  | Study Ch 5 Summary pp 468-470                                   |  |
|              |  | Do Ch 5 Summary Ex pp471-474 (as needed)                        |  |
|              |  | ** Ch 5 Book Test pp 474-475 all but skip #20                   |  |
| W Nov 20     | More 5.5 Multiplying Polynomials           | Complete & correct all 5.5 work                                 |  |
|              | 5.6 Dividing Polynomials (obj 1 only)      | <b>5.6 pp465-467</b> : #1-19 O                                  |  |
|              | 7.1 Roots & Radicals                       | 7.1 pp pp 560-564: #1-63 EOO                                    |  |
|              |  | Complete Unit IV Review HW                                      |  |
| M Nov 25     | Review Unit IV (Exam III)                  | Work on previously assigned Cumulative Reviews & Exam Review on |  |
|              |  | BlackBoard  |  |
|              |  | Plus: Cumulative Review pp 475-76                               |  |
| Nov 27-Dec 1 |  | Thanksgiving Break  |  |
|              | No class Wed Nov 27                        |   |  |
| M Dec 2      | <b>EXAM III (Unit IV)</b> : 5.1 → 5.6; 7.1 | Final Exam Prep   |  |
| W Dec 4      | Review for Final Exam                      | Final Exam Prep   |  |
| M Dec 9      | Review for Final Exam                      | Final Exam Prep   |  |
| W Dec 11     | Final Exam                                 |   |  |

\*\* REQUIRED Hand in on day of Unit Exam

Work must be complete and answers checked for full credit For additional credit, redo any incorrect exercises