Instructor: Jeff Crabill

Email: crabij@linnbenton.edu

Course Materials:

- 11-week ALEKS360 account is required.   CLASS CODE: QF3TE-CPDAJ
- You will need access to a calculator with graphing capabilities OR access to an online graphing calculator like Desmos.
- Regular access to the internet is required. Note: LBCC and public libraries have internet access where you can work.
- Checking your email often is required.
- Working several times each week (5-10 hours weekly)*** in ALEKS is required.
- Keeping a notebook for taking notes with ALEKS and recording work is required.

 ***Please note that your time in ALEKS will depend on the number of objectives you have to complete each week.

Course Description: This course explores relations and linear, quadratic, exponential, absolute value, root, polynomial, rational and logarithmic functions. Includes theory of equations, and matrices. Prerequisite: C or better in Intermediate Algebra, or equivalent.

Math 111 Outcomes:

Upon completion of the course, the student will be able to do the following:

1. Interpret graphical information, such as identifying types of functions, translations, inverses, intercepts, and asymptotes.

2. Solve a variety of symbolic equations and inequalities, such as rational, absolute value, exponential, radical, logarithmic, and linear systems.

3. Construct appropriate models for real world problems, such as fitting an algebraic function model to a set of data, and system of linear equations.

Grading Policy:

The student's grade in this class is based on the following:

Homework (ALEKS weekly objectives)   25%

ALEKS overall pie completion   5%

2 Written Projects	10%
2 ALEKS Midterm Exams	40%
1 Final Exam in ALEKS	20%

Course grade is a weighted average of the above categories and will be assigned as outlined in the scale below:

A : 90-100% B : 80-89% C : 70-79% D : 60-69% F : 0-59%

Course Design: This course is divided into 3 modules.

Module 1: Functions, Linear Equations, Inequalities and Models
Module 2 Quadratic, Polynomial and Rational Functions
Module 3 Inverses, Exponential and Logarithmic Functions, Systems and Matrices

Learning the Material and ALEKS: The course homework and most of the course learning will be done in an online adaptive learning environment called ALEKS. You will start with an initial knowledge check that assesses what you already know and what you still need to learn. ALEKS then determines a unique lesson plan for you to learn the material of the course. Note: ALEKS tailors its lesson path to your understanding of the course material. You will have more or less work to do in ALEKS to learn the course material, depending on how much of the course material you still need to learn.

Every course topic has a lesson from the associated book, College Algebra by Julie Miller and Donna Gerken, 2nd edition. You can access an ebook in ALEKS so you don't have to purchase a hard copy unless you want to. Many of the topics also have videos through the ebook in ALEKS to help you learn the material. You must read the sections in the book and then complete the ALEKS work for that week.

You must be prepared to spend at least 5-10 hours*** or more per week on this class, many of those hours working in ALEKS. Note that since this is a 5-credit math class, if you were in a classroom, you would spend 5 hours in class, and 2 hours outside of class for each hour in class. You will want to be working in ALEKS daily or at a minimum 3-4 times a week to complete each weeks' objectives.

 ***Please note that your time in ALEKS will depend on the number of objectives you have to complete each week.

Homework/Objectives:

Homework is completed online in ALEKS. The ALEKS pie shows you how much of the course material you have already mastered, learned, and still need to learn. Your homework grade for

each week will be the percent of that weeks' objective pie you have completed. The deadline to learn a weeks' objectives is given in ALEKS.

Your lesson path in ALEKS includes topics that are pre-requisites to current course content. This allows you to fill in any gaps in your background knowledge that are essential for you to be able to learn the new material and avoid being stuck and frustrated. You might have to spend time in ALEKS learning these pre-requisites before the content you are learning fills in more of your pie. Note that ALEKS will also randomly assess your understanding of topics you have already learned to see if you still understand it or if it needs to be added back in to your learning path. Tip: ALEKS' goal is that you understand the course objectives, NOT that you do 20 exercises for that section in the book. (You will have more or less to do depending on whether or not you understand it and can do the math yet.) Recognizing this will help you navigate ALEKS successfully.

Writing up Homework and Taking Notes:

Because this is an Internet class, you are responsible for learning the material by reading on your own, keeping yourself on schedule and moving forward. Keep a notebook where you take notes from your work in ALEKS.

Projects:

There are two projects you will complete toward the end of the term.

Project 1: Complete anytime after week 6. Deadline August 28.

Project 2: Complete anytime after week 8. Deadline August 28.

Testing: There are three exams for this class which must be taken in a testing center and must be proctored. You may use the ALEKS calculator on the tests when ALEKS gives it to you. The tests will be taken at the Albany LBCC campus testing center unless you make other arrangements with me by the end of week 1 of summer term.

Midterm Exam 1: Exam available July 15, 16, or 17 (Saturday option: July 13)

Midterm Exam 2: Exam available August 5, 6, or 7 (Saturday option: Aug 3)

Final Exam: Exam available August 27 through 29

Being Successful and Getting Help: There is help and support available to you—do not hesitate to seek it out when you have difficulty in the class. Math Help Desk - Each of our campus locations has a Math Help Desk. This is a place where you can get drop in help with your math questions. See the LBCC website for hours of the learning centers. Tutoring - You are eligible for 3 hours a week of free tutoring services from the Tutoring Center. See the tutoring center at

the LBCC website for more details. Books and videos - Homework assignments have videos linked through the ebook and all of the topics are covered in your book. Additionally, there is a whole internet full of videos and tutorials at your fingertips!

Academic Honesty: I assume that you are ethical and honest. However, if there is an incident of academic dishonesty (cheating), you will receive a score of zero for that test/assignment and the incident will be reported to the college administration for possible further disciplinary action. If there is a second offense, you will receive a grade of F for the course and the incident will be reported to the college administration with a recommendation for disciplinary action.

Special Circumstances: The only time you will be on campus is for exams. In those situations, students who have any emergency medical information the instructor should know of, who need special arrangements in the event of evacuation, or students with documented disabilities who may need accommodations, should inform the instructor as early as possible, no later than the first week of the term. If additional assistance is required, the student should contact the Center for Accessibility Resources at 917-4789.

LBCC Comprehensive Statement of Nondiscrimination: LBCC prohibits unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, sexual orientation, marital status, disability, veteran status, age, or any other status protected under applicable federal, state, or local laws.

Statement of Inclusion: The LBCC community is enriched by diversity. Each individual has worth and makes contributions to create that diversity at the college. Everyone has the right to think, learn, and work together in an environment of respect, tolerance, and goodwill. (related to Board Policy #1015)