

MTH 111-College Algebra

Fall 2020

Instructor Information

Instructor: Juli Schutfort

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Office Hours: T, Th 4-5 pm via Zoom <https://linnbenton.zoom.us/j/4387657408>

Course Information

CRN: 20183

Prerequisite: MTH 95 or equivalent

Topics covered will include relations and functions; including linear, quadratic, polynomial, rational, exponential and logarithmic functions. Functions and solving of equations will be emphasized. Use of matrices to solve systems will be introduced.

Course Outcomes:

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.

Materials:

Regular access to a computer and the Internet

Graphing Calculator, TI83 or TI84 preferred

We will be using an open source textbook and software

Resources:

The Math Desk will be operating remotely via Zoom, with drop-in help available during our standard hours:

- 8am - 9pm Mon - Thu
- 8am - 5pm Fri
- 11am - 4pm Sat

The link to the remote Math Desk is <https://linnbenton.zoom.us/j/579890953>

The URL for the Learning Center Remote Resources site

is <https://www.linnbenton.edu/current-students/study/learning-center/hours-and-locations/index.php>. This will have all relevant Zoom meeting links, hours, and updated information for students who want to use any of the Learning Center resources.

How your Progress will be Measured

Homework: Success in a math class goes hand-in-hand with completing the homework assignments. When doing your homework, feel free to ask for help. The Math Lab personnel are here to help you; get in the habit of doing your homework during drop-in help hours. Form a study group with other members of the class. Talking with others about math is where learning begins!

Homework will be completed and submitted electronically using MyOpenMath.

Enrolling in the Class Software: MyOpenMath

- 1 Go to www.myopenmath.com
- 2 Click on "Register as a New Student"
- 3 Enter a user name, I recommend using your student ID number
- 4 Choose and confirm a password, one you will not forget
- 5 Enter your first and last names, and your e-mail address
- 6 Enter the Course ID:
- 7 Enter the Enrollment Key:

Homework for the week will be due on Sunday at 11:59pm. You will have 3 late passes that you can use on HW assignments. You must apply the late pass before the due date of the assignment. The late pass will extend the due date by 4 days without penalty. You will get 3 attempts per problem in a HW assignment. Your two lowest HW scores will be dropped from the grade calculation.

Activities: There are weekly Activities (1 or 2 per week) that you will be discussing in groups in Moodle and submitting individually. The submission date is usually on Saturday even if there are two Activities that week. Solutions to the Activities will be posted after the due date. Late Activities are not accepted. The lowest activity score will be dropped.

Participation: You will receive participation points for posting to the weekly Activity Group discussion forum.

Tests: There will be two tests and a comprehensive final in this course. Testing will be done in myOpenMath and will be available for a 24 hour period. There are no retests. If you must miss a test you are required to contact the Instructor prior to the testing time. If you fail to take a test, you will receive a score of 0.

- The time limit for test 1 and test 2 is 90 minutes. The limit for the final exam is 110 minutes.
- The exams may randomly generate questions of different types so each student's version may be slightly different but cover the same concepts.
- The tests are not proctored.
- The exams are open books and notes.
- Test dates are on the class schedule and the myOpenMath website.

Grading: Grades will be based on

2 Tests (15% each)	30%
Cumulative Final	15%
Activities	15%
Participation	5%
MyOpenMath Homework	35%

Final Grade: A: 90 - 100% B: 80 - 89% C: 70 - 79% D: 60 - 69% F: 0 - 59%
(The grades of Y and WP are not given in this class. The grade of IN is only given under unusual and verifiable conditions, and if the majority of the work has been completed.)

Other

LBCC maintains a policy of nondiscrimination and equal opportunity in employment and admissions, without regard to race, color, sex, marital and/or parental status, religion, national origin, age, mental or physical disability, Vietnam era, or veteran status.

Students who may need accommodations due to documented disabilities, or who have medical information which the instructor should know, or who need special arrangements in an emergency, should speak with the instructor during the first week of class. If you think you may need accommodation services, please contact Center for Accessibility Resources, 917-4789.

Acts of academic dishonesty are regarded by the college as very serious offenses. Penalties will be the maximum permitted by the college.

Tentative Schedule—Any changes will be made in myOpenMath

Week	Topic	Assignments
1	Sec 3.1: Functions & Function Notation Sec 3.2: Domain & Range Sec 3.3: Rate of Change	HW 3.1, 3.2 & 3.3 Weekly Discussion Activity 1
2	Sec 3.4: Composition of Functions Sec 3.5: Transformations Sec 3.6: Absolute Values	HW 3.4, 3.5 & 3.6 Weekly Discussion Activity 2 & 3
3	Sec 3.7: Inverses Sec 4.1: Linear Functions Sec 4.2: Modeling with Linear Function	HW 3.7, 4.1 & 4.2 Weekly Discussion Activity 4 & 5
4	Test 1 – Open Tuesday 12am – 11:59pm Sec 5.1: Quadratic Functions Sec 5.2: Power & Polynomial Functions	HW 5.1 & 5.2 Weekly Discussion Activity 6
5	Sec 5.3: Graphs of Polynomial Functions Sec 5.6: Rational Functions Sec 5.7: Inverses and Radical Functions	HW 5.3, 5.6 & 5.7 Weekly Discussion Activity 7 & 8
6	Sec 5.8: Modeling Using Variation Sec 6.1: Exponential Functions Sec 6.2: Graphs of Exponential Functions	HW 5.8, 6.1 & 6.2 Weekly Discussion Activity 9 & 10
7	Test 2 – Open Tuesday 12am – 11:59pm Sec 6.3: Logarithmic Functions Sec 6.4: Graphs of Log Functions	HW 6.3 & 6.4 Weekly Discussion Activity 11
8	Sec 6.5: Logarithmic Properties Sec 6.6: Exponential and Log Equations Sec 6.7: Exp & Log Models	HW 6.5, 6.6 & 6.7 Weekly Discussion Activity 12 & 13
9	Sec 4.3: Fitting Linear Models to Data Sec 6.8: Fitting Exponential Models to data Thanksgiving Holiday	HW 4.3 & 6.8 No Activities or Discussions
10	Sec 11.1: System of Equations : Two Variables Sec 11.2: System of Equations : Three Variables Sec 11.6 Solving Systems with Gaussian Elimination	HW 11.1, 11.2 & 11.6 Weekly Discussion Activity 14 & 15
11	Review Final Exam open Tuesday at 12am to 11:59pm	