

Course Syllabus

College Algebra

Instructor/Department Contact Information:

Instructor: Jeannie Youngblood

Office Location: HHS A225

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College Website: www.lee.edu

Course Details:

Term: Fall 2018

Course Number: Math 1314

Course Section: F020

Credit Hours: 3

Class Location: HHS A225

Class Day(s): M, T, Th, F

Class Time: 4th Period

Course Description: This course covers the study of quadratic, polynomial, rational, logarithmic, and exponential functions; systems of equations; progressions; sequences and series; and matrices and determinants.

Student Learning Outcomes: Upon successful completing of this course, students will:

1. Demonstrate understanding and knowledge of properties of functions, which include domain and range, operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential, and logarithmic functions and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve, and apply systems of linear equations using matrices.

Prerequisites/Co-requisites:

TSIA Reading 351, TSIA Writing 5 (4 + 340), TSIA Math 350

MATH330 or equivalent and ENGL301 or equivalent. Pre/Co requisite: READ302 or equivalent.

In our efforts to prepare students for a changing world, students may be expected to utilize computer technology while enrolled in classes, certificate, and/or degree programs within Lee College. Click on any of the [links](#) for more information:

Computer and online proficiencies helpful in this program include the ability to navigate in the Internet, login to Lee College's website and online Learning Management System (LMS), and use basic features of Microsoft Office (Create a Word Document). Due to the cost of MS Office the college has [Office 365](#) available to students at no charge (click on link for access). This can be installed on up to five different devices (home computer, tablet, etc.) Students will have access to college computer labs and the Lee College Library during normal hours as well as being able to remotely login from outside locations using personal devices.

Grades will be continuously made available to students with the LMS through Blackboard. This is accessed using the student's login and password provided when the student first registered for classes. \add any further information on the use of technology in your course here\

Supplies Requirement:

Required Material:

You will need to purchase the lecture worksheets and MyMathLab access for this course.

Hamby's College Algebra Lecture Worksheets by Hamby \$18.50 at Lee College Bookstore

Pearson MyMathLab access code for homeworks, quizzes, includes the online book.

www.pearsonmylabandmastering.com

Course ID youngblood37569

Other Materials

A graphing calculator is allowed on some homework, quizzes, and exams. You will be required to bring your own calculator to class each day. Most exam questions require you to show all of your work, so do not rely too heavily on the calculator.

You will need a spiral notebook, pencils, and erasers for this course.

Instructor Guidelines and Policies

Attendance:

Assignments:

Homeworks and quizzes will be assigned and tracked on MyMathLab. Deadlines are firm. In extenuating circumstances that a deadline is not met, please see me.

Projects and Exams will be proctored in class and recorded on MyMathLab.

Make-up Exams:

If you miss an exam, you will be given the opportunity to make it up the next class meeting after class. Arrangements to stay and complete the exam are your responsibility. You can only make up one exam.

Cell phones and Computers:

Cell phone use in class is prohibited. All cell phones must be turned off or set on silent mode (not vibrate). Cell phones used in class will be confiscated and you will be asked to leave the class for the day resulting in an absence.

HHS policy, cell phones must be placed in the cell phone holder at the beginning of each class.

[Link to the Americans with Disabilities Act \(ADA\) Website:](#) Lee College is committed to providing all students equal access to learning opportunities as required by the Vocational Rehabilitation Act of 1973, Title V, Section 504 and the Americans with Disabilities Act of 1990 (ADA). Disability Services (DS) is the campus unit that works with students who have disabilities to provide and/or arrange reasonable accommodations. Students registered with DS, who have a letter requesting accommodations, are encouraged to contact the professor early in the semester. Students who have, or think they may have, a disability, are invited to contact DS for a confidential discussion at (832)-556-4069 or at kvillanueva@lee.edu. DS is located in Rundell Hall room 106. Additional information is available at the DS website [Access Center for Students with Disabilities Website](#).

[Attendance Policy Link:](#) Please notify me by phone or via email when you are not able to attend class. Students who have been absent from class for three hours or three sessions without notifying the instructor may be dropped for non-attendance.

[Absences Due to Religious Holy Days Link to Catalog:](#) Students may be absent from classes for the observance of a religious holy day and will be allowed to take an examination or complete an assignment scheduled for that day within a reasonable time as established by the instructor.

[Academic Honesty Policy/Cheating Link to Catalog:](#) Academic honesty is essential to the maintenance of an environment where teaching and learning take place. It is also the foundation upon which students build personal integrity and establish standards of personal behavior. Lee College expects and encourages all students to contribute to such an environment by observing the principles of academic honesty outlined in the College’s Academic Honesty Code, which is detailed in Chapter Three of the Lee College Catalog under Academic Honesty. It is the student’s responsibility to understand and comply with this code.

[Withdrawal / Drop Policy Link to Catalog:](#) Withdrawal from the course after the official day of record and prior to the final day for Student Drops will result in a final grade of “W” on your transcript; no credit will be awarded for a course earning a “W.” If you stop attending class, you must withdraw at the Admissions office prior to the final day for Student Drops to avoid receiving a grade of “F” for that class.

The last day for Student Drops for this semester is: **Friday November 16, 2018**

GRADE DETERMINATION--

Your grade will be determined by the following	Details	Points (if applicable)	Percent of Final Average
Chapter Exams			60%
Quizzes			10%
Homework/Projects			10%
Final Exam			20%
Total:			100%

Tentative Instructional Outline:

Instructor reserves the right to modify this syllabus as needed during the course.

HHS College Algebra 1314 Tentative Fall 2018 Schedule

Dates, assignments, and quizzes can change without notice

Date	Sections & Assignments on MyMathLab	% of Grade
Mon. Aug 27	Introduction/Orientation/ 1.1	10%
Tues. Aug 28	1.2 Linear & Rational Equations	10%
Thurs. Aug 30	1.3 Models & Applications (Quiz 1.1-1.3)	10%
Fri. Aug 31	1.4 Complex Numbers	10%
Mon. Sept 3	School Holiday	
Tues. Sept 4	1.5 Quadratic Equations	10%
Thurs. Sept 6	1.6 Other Types of Equations	10%
Fri. Sept 7	1.7 Linear Inequalities & Absolute Value Functions	10%
Mon. Sept 10	Project 1	10%
Tues. Sept 11	Review	
Wed. Sept 12	DAY of RECORD	
Thurs. Sept 13	Exam 1	60%
Fri. Sept 14	2.1 Basics of Functions & Their Graphs	10%
Mon. Sept 17	2.2 More on Functions & Their Graphs (Quiz 2.1-2.2)	10%
Tues. Sept 18	2.3 Linear Functions & Slope	10%
Thurs Sept 20	2.4 More on Slope	10%
Fri Sept 21	2.5 Transformations of Functions (Quiz 2.3-2.5)	10%
Mon Sept 24	2.6 Combinations of Functions: Composite Functions	10%
Tues Sept 25	2.7 Inverse Functions	10%

Thurs Sept 27	2.8 Distance and Midpoint Formulas; Circles (Quiz 2.6-2.8)	10%
Fri Sept 28	Project 2 Raccoon Problem	10%
Mon Oct 1	Review	
Tues Oct 3	Exam 2	60%
Thurs Oct 4	3.1 Quadratic Functions	10%
Fri Oct 5	3.2 Polynomial Functions & Their Graphs	10%
Mon Oct 8	3.3 Dividing Polynomials: Remainder & Factor Theorems (Quiz 3.1-3.3)	10%
Tues Oct 9	3.4 Zeros of Polynomial Functions	10%
Thurs Oct 11	3.5 Rational Functions & Their Graphs	10%
Fri Oct 12	3.6 Polynomial & Rational Inequalities (Quiz 3.4-3.6)	10%
Mon Oct 15	*3.7 Modeling Using Variations	10%
Tues Oct 16	Review	
Thurs Oct 18	Exam 3	60%
Fri Oct 19	4.1 Exponential Functions	10%
Mon Oct 22	4.2 Logarithmic Functions	10%
Tues Oct 23	4.3 Properties of Logarithms	10%
Thurs Oct 25	4.4 Exponential & Logarithmic Equations (Quiz 4.1-4.4)	10%
Fri Oct 26	Student Holiday	
Mon Oct 29	4.5 Exponential Growth & Decay	10%
Tues Oct 30	Project Gorilla	10%
Thurs Nov 1	8.1 Sequence & Summation Notation	10%
Fri Nov 2	8.2 Arithmetic Sequences	10%
Mon Nov 5	8.3 Geometric Sequences and Series (Quiz 4.5, 8.1-8.3)	10%

Tues Nov 6	Review	
Thurs Nov 8	Exam 4 & 8	60%
Fri Nov 9	Project Deer Pop	10%
Mon Nov 12	5.1 Systems of Linear Equations-2 Variables	10%
Tues Nov 13	5.2 Systems of Linear Equations-3 Variables	10%
Thurs Nov 15	5.4 Systems of Nonlinear Equations -2Variables (Quiz 5.1-5.4)	10%
Fri Nov 16	5.5 Systems of Inequalities LAST DAY TO DROP w/ W	10%
Mon Nov 19-23	School Holiday	
Mon Nov 26	Review	
Tues Nov 27	Exam 5	60%
Thurs Nov 29	6.1 Matrix Solutions to Linear Systems	10%
Fri. Nov 30	6.2 Inconsistent and Dependent Systems	10%
Mon. Dec 3	6.3 Matrix Operations	10%
Tues. Dec 4	6.5 Determinants and Cramer's Rule (Quiz 5.5-6.5)	10%
Thur. Dec 6	Review	
Fri. Dec 7	Exam 6	60%
Mon. Dec 10	Exam Review	10%
Tues. Dec 11	Exam Review	10%
Thur. Dec 13	Final Exam	20%

Grade Determination:

Final Average in Percent	Letter Grade
89.50 – 100	A
79.50 – 89.49	B
69.50 – 79.49	C
59.50 – 69.49	D
< 59.50	F
Incomplete - no credit	I

A grade of “I” indicates incomplete work resulting from illness or other unavoidable circumstances. Coursework must be completed per written contract with Instructor during the following semester to earn replacement grade, otherwise it will revert to an “F”. To be eligible to receive an “I” students must have completed at least 75 percent of the work required for the course in question during the original term of enrollment. Policy on this can be found in the [Lee College Catalog/Incomplete](#)