

Math 55 (55A and 55B) Syllabus --- Math Emporium

Course Description: Intermediate algebra concepts, including: An introduction to functions; linear and absolute value functions; absolute value equations and inequalities; compound linear inequalities; systems of linear equations in three variables and matrix solutions; rational expressions, functions and equations; radical expressions, functions and equations; rational exponents; complex numbers; quadratic functions and equations; inverse of a function; exponential and logarithmic functions; properties of logarithms; exponential and logarithmic equations; conic sections; and systems of non-linear equations and inequalities. Multiple representations, applications and modeling with functions are emphasized throughout.

Fill in the Following information:

My Instructor: _____ **Email:** _____
Office Hours: _____ **Phone:** _____
Final Exam date: _____ **Final Time:** _____

Materials:

- Pearson **LPC Custom MyMathLab** Access Code. This can be purchased in the Bookstore or online through the MyMathLab website. It will be applied to a course based on the book ***Interactive Developmental Mathematics 1/E by Rockswold and Krieger***. The course ID is: _____
- **Optional:** Scientific Calculator. Calculators are available for use while in the classroom. Supply limited.
- **Optional:** Headphones. Headphones are available for use while in the classroom. Supply limited.

Attendance: Sign in using your W number on the SARS-TRAC computers in this room only. **You must sign out also.** In addition to tracking time via SARS, attendance will be taken daily by your instructor. Students missing the first day will be dropped. **While you are required to attend your own section,** you are welcome to attend any other Math Emporium class to further your self-acceleration. Note: Your Participation grade is based on time spent on task while in the classroom, so please make sure you consistently attending your class.

Binder: Once you've completed your orientation assignment, you'll be given a course binder, which will contain:

- Reminders and tips for the course.
- Skill-Builder and Essential Warm-up assignments.
- Follow-along lecture notes.
- Midterm and Final Exam answer sheets.

Lab Assignments: Compiled from questions taken from your Skill-Builder and Essential Warm-up assignments. These are completed online and must be completed prior to taking your Chapter Test.

Knowledge Check: There is a computerized Knowledge Check for every chapter. These are taken in the Testing room without notes. The results are used to personalize your homework exercises. Unless the grade is 90% or more, the grade on the knowledge check does not count towards your grade in the course.

Lecture notes: Each section has a set of lecture notes that should be filled in while completing your Interactive Assignments. These must be filled in before completing the remaining homework questions for a section. Completed notes will be check before you are allowed to take your Chapter Test.

Homework: Homework does not count towards your course grade, but you must master each section with 90% or more to move on to the next section.

Chapter Tests: There is a computerized test at the end of each chapter. Each test MUST be passed with a score of 80% or more. You have three tries to accomplish this. Students not passing after three tries will be given a

modified version of the exam (slightly longer, problems that that have slightly increased in difficulty) and must pass it with an 84% or more. The average of the attempts will be used as the grade for the exam.

Midterm and Final Exam: Pencil/Paper Tests. Do not need an 80% to pass. You keep the score you earn. These exams can only be take once. The Midterm covers chapters 7, 8, and 10. Final (for both 55 and 55B) is comprehensive covers Chapters 7 - 13.

Course Grade: Based on Mastery Learning of the material: A: 92 – 100, B: 84 – 92, C: 76 – 83, D: 68 – 75, F: 0 – 67.

Your course grade is determined by:

Participation (Time on Task & Forward Progress) – 7.5%

Labs – 7.5%

Chapter Tests – 55%*

Midterm – 15%

Final – 15%

*Tests that have taken more than one try will be averaged together. The lowest non-passing test score will be dropped.

Your current course grade will be available to you throughout the semester in your MyMathLab grade book.

Students are encouraged to select the PASS/NO PASS grade option for this course. However, check with a counselor if you are unsure if you need a letter grade or if a Pass/No Pass is fine.

Getting Help:

- Use the variety of online supports available to you in MyMathLab.
- Add your name to the “Help” list on the board. The instructor, instructional assistant or peer tutor will help you.
- Sign-up for 1-on-1 tutoring during class time for quality learning time with your peer tutor.
- Attend classroom workshops led by the instructor, instructional assistant or peer tutor. See your MyMathLab course for this semester’s schedule.
- You may also attend any other Math Emporium class to get help or take tests. The lab is open from 9:30a.m. – 9:15pm Monday through Thursday.

Classroom Announcements: Please check for posted announcements in your MyMathLab course. You will also need access to an email account that you check regularly for updates and communications with your instructor.

TIPS:

- Stay motivated. Use the Target Dates as guidelines for pacing.
- Plan for the unexpected. Give yourself some wiggle in your schedule to adjust as needed. For example, if an instructor is absent, this means the classroom and testing room have to shut down for that class time.
- Ask for help often. The classroom staff is there to assist you in your learning.
- Work outside of class just like any other class.
- Add some loose-leaf paper to your binder. Use this paper to neatly show your work as you progress through the homework. Doing so makes it easier to review for an exam and to get help with the content.
- Communicate with your instructor regarding any absences.

Important dates:

NGR: August 25th	Select Pass/no pass by Sept 10th	W day: November 3rd
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Holiday (No instruction – Lab closed) Sept 4th, FLEX Oct 24th (No classes before 4pm), Nov 10th, Nov 22-24th

Expected Course Outcomes: Upon completion of both 55A and 55B, the student should be able to:

- identify properties of real numbers;
- simplify algebraic expressions;
- translate a verbal statement into an algebraic expression;

- solve linear equations in one variable;
- solve a formula for a specified variable;
- solve and graph a linear inequality in one variable and express the solution using correct interval or set notation;
- develop and graph linear equations in two variables using various methods;
- apply concepts of slopes and rates of change;
- develop and describe basic linear models;
- solve systems of linear equations in two variables by either the elimination or the substitution methods;
- solve linear inequalities in two variables and systems of linear inequalities in two variables;
- apply the rules for integer exponents;
- simplify, add, subtract, multiply and divide polynomial expressions;
- employ factoring techniques, including the difference of two squares and the sum and difference of two cubes, to factor polynomials completely;
- solve quadratic and polynomial equations by factoring;
- simplify rational expressions; multiply and divide rational expressions;
- add and subtract rational expressions with like denominators;
- apply algebraic methods to represent, analyze and solve applied problems involving linear and quadratic equations.

Student Learning Outcomes: Upon successful completion of 55 (both 55A and 55B), a student should be able to
In Math 55A:

- Determine the domain of a function. (*Problem Solving*)

In Math 55B:

- Construct multiple representations of a function (numerical, graphical, or symbolic). (*Multiple Representations*)
- Solve an applied problem using a function. (*Problem Solving*)
- Interpret an applied problem using a function. (*Communication*)

LPC College Policies: Per Las Positas College policy as stated in the college catalog,

Withdrawal: students are responsible for officially withdrawing from classes by the deadline date listed in the current Class Schedule. There is no automatic withdrawal process. Failure to follow the proper withdrawal procedures may result in a grade of "F". Also note that the instructor may drop students who miss the first meeting of a course. In addition, an instructor may initiate a drop if the student is absent for a total of four (4) consecutive or six (6) cumulative instructional hours and/or two (2) consecutive weeks of instruction.

Repeatability: a student is allowed to attempt a course (or courses equivalent to it) at total of **THREE TIMES**. If the first attempt is unsuccessful (W, D, F, or No Pass) a student has two additional attempts to complete the course with a passing grade (A, B, C or Pass).

Academic Honesty Policy: Upon entering the testing room all items except your pencil and calculator (if allowed) should be placed in one of the cubbies. If you use calculator (when not allowed), a graphing calculator, a cell phone, other electronic devices, or notes you will receive a zero on that exam and this grade cannot be dropped. This zero is averaged into your score for that test. If you cheat again, you will be reported for academic dishonesty.