MATH 154A Section 2

Monday and Wednesday 4:00 to 5:50 PM Room E100 4 UNITS

Instructor Richard Lund

Phone Numbers: 621-1904 (In Placerville, preferred)

541-5952 (Tahoe)
Only Placerville has an answering machine for messages.

Internet

- **E-Mail** rwlund92@gmail.com (Best way to reach me.)
- **Course ID** **(for MyMathLab):** lund61596

(Optional) Text Beginning and Intermediate Algebra, 4th edition by Elayn Martin-Gay

Required Software: It is required to have a software license to use the software MyMathLab in this class. You must have a valid e-mail address to use the on-line curriculum. Students have *two choices*. The *first choice* is to purchase the textbook from the bookstore. The textbook comes with the software license. Note: If you purchase a used textbook, it may not have a valid course access code. Be VERY careful when acquiring the text. The *second choice* is to purchase the license alone either from the bookstore or online at coursecompass.com. The license gives you access to the textbook online. This is a more economical choice, but is only recommended to students who have online access and feel comfortable reading a computer screen instead of a traditional book. If you have already purchased an access code for Math 152A for this textbook, you may also use it for this class at no extra cost. To access our class page, go to www.coursecompass.com and register using your student access code and the course ID for this class: **lund61596**

For assistance with MyMathLab: You may get help by calling 1-800-677-6337 during the following hours: Mon – Fri 5:00 AM – 5:00 PM & Sunday 2:00 PM – 9:00 PM. Online assistance is available 24 hours every day at: 247pearsoned.custhelp.com

Calculator: Calculator adopted by the Math Department is the TI 89

Course Description: MAT 154A is a continuation of MAT 152B and covers functions and inverses, exponential and logarithmic functions, sequences and series, and conic sections, quadratic equations, and systems of quadratic equations.

Prerequisite: A grade of C or better in MAT 152B, or appropriate skills demonstrated through the Math assessment process.

Student Learning Objectives:
1. Apply the course topics to real-world situations.
2. Sketch and interpret the graphs of functions and relations introduced in intermediate algebra.
3. Simplify mathematical expressions into forms more amenable to analysis.
4. Provide solutions to equations using methods from intermediate algebra.

Grading Policy Your letter grade will be based on your percentage of possible points.

A 90 -- 100% C 70 -- 79%

B 80 -- 89% D 60 -- 69%

Homework and Computer Quizzes .....70 points

In Class Quizzes.....70 Points

Exam 1: April 13 .....180 points

Exam II: May 9 .....180 points

Exam III: June 1 ..... 180 points

Final Exam: June 20 ..... 320 points

Exam Policy Students are to bring pencils or pens and blank paper to each exam. Grading will based on the progress towards the final answer, and the demonstration of understanding of the concept that is being tested, therefore, work must be shown in detail. Any student who cannot make it to an exam may elect to take the exam up to two days before the exam is scheduled. **All quizzes and tests (including the final) are open book.**

Computer Homework and Quiz Policy Homework is due by Wednesday and Friday at 11:59 PM. Quizzes will be given at the beginning of class on a fairly frequent schedule. It is strongly recommended that you work on the homework each day with the goal of completing both your homework 24 hours before they are due so that you have time to respond to unforeseen emergencies or confusions. Feel free to consult a fellow classmate, a tutor, your instructor, or anyone else for assistance on the homework.

Completion of ALL of the homework will allow your lowest midterm grade to be dropped.

Quizzes will be given throughout the quarter. You must complete at least 5 quizzes for grade. You are encouraged to take all the quizzes. Your top five quiz scores will count toward your grade.

Office Hours: I do not have an office at the college. I am here Mondays and Wednesdays before noon and am anxious to help you then.

Learning Disabilities: If you have a learning disability, be sure to discuss your special needs with Richard. Learning disabilities will be accommodated.

Tutoring: Tutors are available at no cost in A201 (The Math Success Center).

A WORD ON HONESTY:

Cheating or copying will not be tolerated. People who cheat dilute the honest effort of the rest of us. If you cheat on a quiz or exam you will receive an F for the course, not merely for the test. Other college disciplinary action including expulsion might occur. Please don't cheat in this class. If you are having difficulty with the course, please see me.

Lecture Schedule

Date Section Topics

Mon – April 4
3.6 Functions
4.4 Systems of Linear Equations in 3 Variables

Wed – April 6
8.2 Graphs of Functions

Mon – April 11
8.3 Transformations of Functions and Piecewise Functions
11.3 Using Quadratic Methods to Solve Equations

Wed – April 13 **Midterm I (3.6, 4.4, 8.2, 8.3, 11.3)**

Mon – April 18

11.4 Quadratic and Rational Inequalities

Wed – April 20
11.5 Quadratic Functions and their Graphs

Mon – April 25
11.6 Further Graphing of Quadratic Functions

Wed – April 27
12.1 Function Algebra

Mon – May 2
12.2 Inverses
12.3 Exponential Functions

Wed - May 4
12.4 Logarithmic Functions
Review for Midterm 2

Mon – May 9 **Midterm II** (1**1.4, 11.5, 11.6, 12.1, 12.2, 12.3, 12.4)**

Wed – May 11
12.5 Properties of Logs

Mon – May 16
12.6 Common and Natural Logs and Change of Base
12.7 Log and Exponential Equations

Wed – May 18
13.1 Parabolas and Circles

Mon – May 23
13.2 Ellipses and Hyperbolas
13.3 Systems of Nonlinear Equations

Wed – May 25
13.4 Nonlinear Inequalities and Systems of Inequalities

Mon – May 30 **College Closed Memorial Day**

Wed – June 1 **Midterm III (12.5, 12.6, 12.7, 13.1, 13.2, 13.3, 13.4)**

Mon – June 6
14.1 Sequences
14.2 Arithmetic and Geometric Sequences

Wed – June 8
14.3 Series

Mon – June 13
14.4 Arithmetic and Geometric Series

Wed – June 15
14.5 Binomial Theorem
Review for Final Exam

Mon - June 20 **Comprehensive Final Exam 4:00 - 5:50 pm**

HOW TO SUCCEED IN A MATH CLASS

- Come to every class meeting.
- Arrive early, get yourself settled, spend a few minutes looking at your notes from the previous class meeting, and have your materials ready when class starts.
- Read each section before it is discussed in class.
- Do some math every day.
- Study at least an hour for each quiz, at least two hours for each exam, and at least four hours for the final.
- Start preparing for the tests at least a week in advance.
- Spend about half of your study time working with your classmates.
- Take advantage of tutors and office hours, extra help can make a big difference.