

## Math 154A–2 Intermediate Algebra

**Monday and Wednesday, 1:30 pm to 3:20 pm**

**Room A 213**

**4 UNITS**

**Class Begins:** April 7, 2014 Monday 1:30 pm

**Class Ends:** June 23, 2014 - Final Exam Monday 2:00 pm - 3:50 pm

**Instructor:** Richard Lund

**Course ID:** MyMathLab **lund47646**

**Phone Numbers:** 530-621-1904 (In Placerville, preferred)  
541-5952 (Tahoe, when here) Only Placerville has an answering machine for messages.

**e-mail:** [rwlund92@gmail.com](mailto:rwlund92@gmail.com) (Best way to reach me.)

**LTCC home page:** <http://www.ltcc.cc.ca.us/> Go to > “Academic Departments”, > “Math Department”, > “Math Resources”, you will find a world of resources that will help you.

**Required Textbook:** Beginning and Intermediate Algebra, Fifth Edition by Elayn Martin-Gay.

**Required Software License:** It is required to have a software license for this class. Students have two choices. The first is to purchase the textbook from the bookstore. The textbook comes with the license. The second choice is to purchase the license alone either from the bookstore or online. 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. Purchasing a used textbook without the software license is not an option for this class.

You enter a valid email address when you register on Course Compass ([www.coursecompass.com](http://www.coursecompass.com)). I will communicate with you via this email. Therefore you must monitor the email address you used.

Course website: [www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com)

Our Course Id is **lund47646**

For assistance call 1-800-677-6337, Mon – Fri 12:00 PM to 8:00 PM EDT

Online assistance is available 24 hours every day at: <http://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 Outcomes**

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.

**Methods of Assessing Student Learning Outcomes**

1. Homework
2. Quizzes
3. Exams
4. Final exam

Students with disabilities please identify themselves to me within the first two weeks of class.  
**Accommodations for Students with Disabilities:** Students requiring accommodations for a certain disability that may affect class performance are requested to schedule with a staff member at the DRC to discuss this during the first week of the quarter so that appropriate arrangements can be made.  
 \* Course materials available in alternate format.

**Grading Policy:**

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

- A 90 to 100%
- B 80 to 89%
- C 70 to 79%
- D 60 to 69%

Quizzes	7 points
Homework	7 points
Midterm 1	27 points
Midterm 2	27 points
Final Exam	<u>32</u> points

Total Points 100 Only two midterms are listed since it is assumed that you will want to turn in all your homework so that your lowest grade of three midterms is dropped.

**Quizzes** will be given at random intervals during the quarter to assess your progress. You must complete at least five quizzes. If you have more than five, and you have turned in all of your homework by the Final, the lowest grades of those in excess of five will be dropped so that your grade is based on the five best scores of your quizzes.

**Exam Policy:**

Students are to bring calculators, pencils or pens and paper to each exam.

Grading will be based on progress towards the final answer, and the demonstration of understanding of the concept that is being tested. Therefore, work must be shown in detail. Remember, my job is to communicate to you the concepts so that you can learn them. Your job in class or during an exam is to communicate to me how you would go about solving the problems. The more you communicate, that is, show me with steps and detail, the better your chances for partial credit. A simple answer, with no detail whatever, does not help me at all! You give me the communication and detail in your answers; and I will give you the best grade I can based on your communication and answer.

Any student who cannot make it to an exam may elect to take the exam up to two days before the

exam is scheduled. That exam will be conducted in the TRLC on the 2nd floor of the main building.

**Homework Policy:**

Homework is for Your benefit. Homework is to be turned in at the end of each class on the date due. Homework may be turned in late.

If a student has additional questions, that student may see me after class and then turn in the homework.

Lecture will always be geared towards an explanation of the topics that will be covered on the homework assignment.

Homework and Lecture assignments are on the Spreadsheet attached as page 4.

**Extra Credit:**

Any student who has turned in every homework assignment may elect to work on an extra credit assignment or project that will count as additional points towards either a midterm or the final.

**Registration:**

1. You must register for this class at the Office of Admissions and Records.
2. **Friday, April 18;** Last day to drop the class with no penalty or mark on your record.
3. **Friday, May 23:** Last day to drop the class and receive a grade of "W".
4. After **May 23**, if you are enrolled, you will receive an A, B, C, D, F, or I (Incomplete, which must be negotiated with the instructor and is only allowed under special circumstances).

In this class, it is your responsibility to drop the class in order to avoid an unwanted grade. You must go to the registrar by the above dates to avoid the unwanted grade.

**Office Hours:**

I have no office here at the college. However, I am often available in the "common area" an hour or so before class; or you may call, email or see me before or after class to arrange to get together.

**How to Succeed in a Math Class**

1. Come to every class meeting.
2. 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.
3. Read each section before it is discussed in class.
4. Do ALL of the homework. Do some math every day.
5. Start preparing for the tests at least a week in advance.
6. Spend about half of your study time working with your classmates.
7. Take advantage of tutors and office hours, extra help can make a big difference.
8. Do not do homework in class.

<b>lund47646</b>		Lecture subjects and sections from the book: Beginning and Intermediate Algebra 5th edition by Elayn Martin-Gay		Homework problems will not be graded in entirety - Select problems will be graded.	
Mon	7-Apr		Introductions		Homework Problems
		3.6	Functions		due on the date listed
		4.4	Systems of Linear Equations in 3 Variables		
Wed	9-Apr	8.2	Graphs of Functions	3.6	1, 5 11, 13, 15, 47, 51, 65, 69, 83, 100
				4.4	1, 5, 13, 15, 21, 25, 27, 29, 39
Mon	14-Apr	8.3	Transformations of Functions and Piecewise Functions	8.2	3, 5, 11, 17, 29, 31, 37, 69
		11.3	Using Quadratic Methods to Solve Equations		
Wed	16-Apr	11.4	Quadratic and Rational Inequalities	8.3	3, 7, 11, 19, 21, 29, 37, 43, 55, 59
			Review for Mid 1	11.3	3, 13, 19, 29, 43, 45, 47, 51, 59, 63, 65, 67
Mon	21-Apr		<b>Midterm 1 3.6 4.4 8.2 8.3 11.3 11.4</b>		
Wed	23-Apr	11.5	Quadratic Functions and Their Graphs	11.4	3, 7, 11, 15, 19, 23, 29, 43, 45
		11.6	Further Graphing of Quadratic Functions		
Mon	28-Apr	12.1	Composite Functions	11.5	1, 9, 15, 19, 23, 25, 31, 37, 49, 67, 71
		12.2	Inverse	11.6	11, 15, 19, 21, 23, 35, 45, 57, 77, 81
Wed	30-Apr	12.3	Exponential Functions	12.1	5, 7, 9, 11, 15, 21, 23, 25, 33, 47
		12.4	Exponential Growth and Decay	12.2	1, 11, 19, 21, 27, 35, 37, 43, 49, 61
Mon	5-May	12.5	Logarithmic Functions	12.3	5, 15, 19, 21, 25, 35, 37, 41, 47
			Review for Mid 2	12.4	1, 3, 5, 9, 11, 15, 17, 21, 23, 31
Wed	7-May		<b>Midterm 2 11.5 11.6 12.1 12.2 12.3 12.4 12.5</b>	12.5	1, 15, 17, 21, 33, 43, 47, 57, 61, 69, 71, 79
Mon	12-May	12.6	Properties of Logs		
		12.7	Common and Natural Logs and Change of Base		
Wed	14-May	12.8	Log and Exponential Equations	12.6	1, 7, 9, 15, 17, 21, 25, 31, 33, 45, 49, 71
		13.1	Parabolas and Circles	12.7	9, 11, 21, 27, 31, 49, 55, 61, 65, 85, 95
Mon	19-May	13.2	Ellipses and Hyperbolas	12.8	5, 9, 11, 19, 27, 35, 41, 45, 57, 59
			Review for Midterm 3	13.1	11, 15, 19, 23, 29, 35, 43, 45, 47, 65, 69, 79, 97
Wed	21-May		<b>Midterm 3 12.6 12.7 12.8 13.1 13.2</b>	13.2	7, 13, 17, 19, 21, 23, 37, 41, 45, 47, 71, 75, 79
Mon	26-May		<b>College Closed - Memorial Day</b>		
Wed	28-May	13.3	Systems of Nonlinear Equations		
Mon	2-Jun	13.4	Nonlinear Inequalities and Systems of Inequalities	13.3	1, 5, 7, 11, 17, 19, 23, 27, 29, 47
Wed	4-Jun	14.1	Sequences	13.4	1, 5, 9, 13, 17, 21, 25, 29, 33
		14.2	Arithmetic and Geometric Sequences		
Mon	9-Jun	14.3	Series	14.1	5, 9, 15, 19, 29, 33, 35, 37, 45, 53, 57
				14.2	3, 7, 11, 13, 19, 25, 29, 31, 43, 49, 51
Wed	11-Jun	14.4	Arithmetic and Geometric Series	14.3	1, 3, 7, 19, 25, 29, 33, 35, 39, 49
Mon	16-Jun	14.5	Binomial Theorem	14.4	3, 5, 15, 19, 23, 27, 31, 45, 47
Wed	18-Jun		Review for Final Exam	14.5	1, 5, 11, 15, 19, 23, 27, 31, 39, 47, 51
Mon	23-Jun		<b>Final Exam - Comprehensive 2:00 pm - 3:50 pm</b>		2:00 pm to 3:50 pm You may start early on the Final