

# Math 103: Intermediate Algebra

## Syllabus and Course Outline for Fall 2015

### Class Information

Section: 56007  
 Day: Monday, Tuesday, Wednesday, Thursday, and Friday  
 Time: 8:00-8:50am  
 Building: Classroom Complex I  
 Room: 201

### Office Hours

Monday: 9:00-10:00am  
 Tuesday: 10:00-11:00am  
 Wednesday: 11:00-12:00am  
 Thursday: 12:00-1:00pm  
 Friday: 2:00-3:00pm  
 Room: Forestry, Engineering, & Math 1N

### About Your Instructor

Name: Ryan Lowenstein  
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 Office phone: (559) 638-3641 ext. TBA  
 Cell phone: (562) 965-9355

### Textbook Required

Elementary and Intermediate Algebra  
 Author: George Woodbury  
 Edition: 3  
 ISBN: 978-0-321-66548-5

### Textbook Note

Homework Assignments will come directly from this textbook **and** from MyMathLab, an online account synced with Blackboard. Both the hardcover and MyMathLab are included in the bookstore price of \$122.70. **All** homework assignments will be posted on Blackboard.

### Estimated Schedule:

Week	Month	Day	Section(s) Covered	Course Topic
1	August	17	Syllabus	Transition from
		18	8.1	Elementary Algebra
		19	8.2	
		20	9.1	Rational Exponents
		21	9.2	and Roots
2		24	9.3	
		25	9.4	
		26	9.4 continued	
		27	9.5	
		28	9.5 continued	
3		31	9.6	
	September	1	9.6 continued	
		2	Review for Test 1	
		3	Test 1	
		4	10.1; Last day to drop without receiving a "W"	Quadratic Functions
4		7	Labor Day (No Class)	
		8	10.1 continued	
		9	10.2	
		10	10.2 continued	
		11	10.3	

5	September	14	10.3 continued	
		15	10.4	
		16	10.4 continued	
		17	10.5	
		18	10.5 continued	
6		21	Review for Test 2	
		22	Test 2	
		23	10.6	
		24	10.6 continued	
		25	11.1	Equations and
7		28	11.1 continued	Functions
		29	11.2	
		30	11.2 continued	
	October	1	11.3	
		2	11.3 continued	
8		5	11.4	
		6	11.4 continued	
		7	Review for Test 3	
		8	Test 3	
		9	Review for Midterm; Last day to drop	
9		12	Review for Midterm	
		13	Midterm	
		14	11.5	
		15	11.5 continued	
		16	11.6	
10		19	11.6 continued	
		20	12.1	Exponential and
		21	12.1 continued	Logarithmic Functions
		22	12.2	
		23	12.2 continued	
11		26	12.3	
		27	12.4	
		28	12.4 continued	
		29	Review for Test 4	
		30	Test 4	
12	November	2	12.5	
		3	12.5 continued	
		4	12.6	
		5	12.6 continued	
		6	13.1	Conic Sections
13		9	13.1 continued	
		10	13.2	
		11	Veterans Day (No Class)	
		12	13.2 continued	
		13	13.3	
14		16	13.3 continued	
		17	Review for Test 5	
		18	Test 5	

14	November	19	13.4	
		20	13.4 continued	
15		23	14.1	Sequences and Series
		24	14.1 continued	
		25	14.2	
		26	Thanksgiving Day (No Class)	
		27	Thanksgiving Break (No Class)	
16		30	14.2 continued	
	December	1	14.3	
		2	14.3 continued	
		3	A-2	Transition to Higher
		4	A-2 continued	Level Mathematics
17		7	Review for Test 6	
		8	Test 6	
		9	Review for Final Exam	
		10	Review for Final Exam	
		11	Review for Final Exam	
18		TBA	Final Exam	

### **Catalog Description**

This course will deal with many algebraic concepts, including equations and inequalities in two variables, rational exponents and roots, quadratic functions, exponential and logarithmic functions, and conic sections.

### **Grade Breakdown**

<b>Category</b>	<b>Weight of Overall Grade</b>
Tests	70%
Homework	20%
Participation	10%

### **Grading Scale**

<b>Minimum Percent Required</b>	<b>Grade</b>
93	A
83	B
73	C
63	D

Grades will be updated regularly on Blackboard

### Test Dates

Test	Sections	Date	Weight of Overall Grade
1	8.1-9.6	Thursday, September 3	7%
2	10.1-10.5	Tuesday, September 22	7%
3	10.6-11.4	Thursday, October 8	7%
Midterm	8.1-11.4	Tuesday, October 13	12%
4	11.5-12.4	Friday, October 30	7%
5	12.5-13.3	Wednesday, November 18	7%
6	13.4-A2	Tuesday, December 8	7%
Final	1.1-A2	To Be Announced	16%

### Test Materials

Approved	Unapproved
Pencil	Textbook
Eraser	Notes
Four-function Calculator	Scientific Calculator
Ruler	Cellphone
Pen	Anything Else

Formula sheets and scratch paper will be provided

### Types of Test Questions

Difficulty	Brief Description	Prevalence
Basic	Easier Question from Course	30% of Test
Proficient	Harder Question from Course	60% of Test
Advanced	Question Never Seen Before	10% of Test

Any concept discussed during class or assigned in homework **will** be on the test in some way

### Miscellaneous Test Information

Only **one** person may leave the room at a time

Each Question is Worth	12 Points
Work Leading to Correct Answer	11 Points
Correct Answer	1 Point

There is a 50 minute time limit

### **Classwork**

Typical assignments include clicker questions, group work, and other activities. About 90% of these assignments must be completed in order for a student to earn full participation and attendance for the day. Students who come to a class and complete less than 90% of the classwork will earn no more than half of the day's participation and attendance. Students who miss more than five classes will automatically be dropped from the class.

### **Homework**

On a twice a week basis, questions are usually assigned online (MyMathLab), which are graded on the correct answer, and sometimes assigned from the textbook (handwritten), which are graded on the correct steps. To offer encouragement, if a student is stuck on an online problem, he or she should turn in his or her handwritten work to the instructor. Also, students should resubmit any questions marked as incorrect from returned handwritten assignments (see Flexibility Pass).

### **Behavior**

<b>Expected</b>	<b>Unwelcome</b>
Asking Questions	Talking over the Instructor
Taking Notes	Texting or on the Phone
Helping Others	Checking Facebook or Email
Participating	Sleeping
Positive Attitude	Doing Homework
Punctual Attendance	Packing up Early

The instructor has the right to remove students from the classroom at any time

### **Late Work Policy**

Late work is never accepted for handwritten homework assignments, unless it is turned in with a flexibility pass (see below). MyMathLab homework assignments may be completed after the deadline for a 10% reduction in overall score.

### **Make-Up Test Policy**

Students who miss a test are **never** guaranteed a make-up. Make-up tests are only administered to students in extenuating circumstances and must be scheduled as far in advance as possible. Students may replace their lowest test score with the grade they earn on the final exam only if they complete all homework from the semester with the exception of four missing assignments or less.

### **Flexibility Pass**

Students will be given four opportunities in the form of passes to turn in late homework. Also, half of each pass can be used to redo already graded homework assignments or to write out MyMathLab assignments and have them graded by hand. However, it is recommended that students mainly use these passes for emergencies because no additional passes will be handed-out later in the semester.

### **Tutoring**

Both Reedley College's Tutorial Center (Library Building, Room LRC 111) and STEM Math Study Center (Forestry, Engineering, & Math, Room 1) offer free tutoring for both students who need help with the concepts presented in this class (recommended when one's grade falls below 83%) and students who have trouble meeting deadlines.

### **Examples of Cheating**

Tests	Classwork and Homework
Using a forbidden test material	Copying another person's assignment
Looking away from one's paper	Looking at the solutions (manual or online)
Talking to another person	Having another person do the assignment for you

Cheating violates Reedley College's Academic Integrity; zero credit will be earned for cheated assignments

### **Universal Design**

This class will try its best to incorporate the special needs of English Learners, students with disabilities, and everyone else. If one feels that his or her needs are not being met, please bring this to the instructor's attention so a solution can be found.

### **Students with Disabilities Policy**

In compliance with ADA guidelines, students who have any condition, either permanent or temporary, that might affect their ability to perform in this class are encouraged to inform the instructor at the beginning of the term. Use of accommodations can start when the instructor receives the Notification of Authorized Services form with the accommodations listed. The granting of any accommodation will not be retroactive and cannot jeopardize the academic standards or integrity of the course.

### **Equity and Diversity**

Reedley College is committed to ensuring equality and valuing diversity. Students and instructors are reminded to show respect at all times.

### **Course Outcomes**

At the end of the course, students should be able to relate and apply algebraic concepts in their everyday lives. More specifically, they should be able to simplify and factor mathematical expressions into forms more conducive to analysis, and they should be able to solve and graph linear, quadratic, exponential, logarithmic, and radical equations as well as functions and relations. These strategies are frequently used in real life situations in which an unknown quantity exists.

### **Course Objectives**

In the process of completing this course, students will:

1. Use the properties of lines and linear inequalities, and apply operations on functions
2. Simplify radical and complex expressions and perform operations on them
3. Solve quadratic equations using various techniques including factoring and quadratic formula, and graph parabolas
4. Apply the properties of exponents and logarithmic functions to change the base of a logarithm
5. Manipulate and graph equations of conic sections

### **Personal Statement**

The instructor of this course understands that the subject of mathematics is difficult and carries a negative preconception among many students. Hence, he values a conceptual understanding of the content and wants to help students succeed in his class, as long as they are willing to do their share of the work.

### **Disclaimer**

The information in this syllabus is subject to change in the event of extenuating circumstances

**Flexibility Pass**

Name \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Assignment \_\_\_\_\_

Assignment \_\_\_\_\_

**Flexibility Pass**

Name \_\_\_\_\_

Name \_\_\_\_\_

Date \_\_\_\_\_

Date \_\_\_\_\_

Assignment \_\_\_\_\_

Assignment \_\_\_\_\_

**Flexibility Pass**

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**Flexibility Pass**

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Assignment \_\_\_\_\_

Assignment \_\_\_\_\_