

MATH-201, Elementary Algebra
REEDLEY COLLEGE
Fall 2016

Instructor: Miguel-Angel Manrique

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Office hours: MTh 12:30-1:30pm, TW 10-10:30am, Th 4-5pm (by email), or by appointment

Meeting location: FEM-4

Meeting times: MTWThF 8am-8:50am

Section number: 95832

Prerequisite: Math-250 or Math-256, or placement.

Book: *Elementary & Intermediate Algebra*, 4th edition (3rd edition OK) by George Woodbury.

1. COURSE DESCRIPTION

In this class we will emphasize mathematical precision and clarity of thought. The main ideas we will look at in this course are

1. properties of whole numbers, integers, and the rational numbers; notation
2. the fundamentals of algebra
3. linear equations
4. linear inequalities
5. system of (linear) equations
6. exponents
7. polynomials
8. factoring polynomials
9. quadratic polynomials and equations, in detail
10. and other topics, as time permits.

Course Structure: You will have a chance to ask questions about homework problems at the beginning of each class period. The remainder of the session will be for thinking about (and discovering) mathematics. *You will be working on problem sets in every class meeting, with your peers and with me.*

Participation and attendance: Active participation in class is an essential ingredient in this course. Participation in your group and in whole class discussions is a significant part of your grade. You are expected to participate in problem solving, offer to present your individual thought process, your reasoning and your solutions to the whole class, and critically evaluate any reasoning presented in class.

For this reason, attendance is mandatory. Missing class, late arrival to class, or leaving in the middle of class will result in a lower grade.

Moreover, *cell phone use is prohibited during class*. Students using their cell phones during class may be asked to leave for the day. Do not use your phone as a calculator; do not have it out.

Homework: Homework will usually be due a couple of times each week in WeBWorK. Access your homework sets here:

<http://www.reedleywebwork.online>

Your login is the same as your Reedley College email (everything before the “@” sign) and your initial password is your ID number.

Exams and quizzes: There will be three midterm exams and one final exam. The final exam will be comprehensive over the entire semester. We will also have quizzes periodically throughout the semester.

No make-ups will be given for missed quizzes or work except in the event of a true, documented emergency where the instructor is notified **in advance**—if reasonable. In such a circumstance, it is the students responsibility to contact the instructor at the earliest possible time to make alternate arrangements.

2. GRADING

In order to pass this class, you must pass the final.

A	=	88%+
B	=	77 – 87%
C	=	66 – 76%
D	=	55 – 65%

I will use the following grading scheme:

WeBWorK:	15%
Traditional homework:	10%
Class participation:	5%
Quizzes:	10%
Exam 1:	10%
Exam 2:	10%
Exam 3:	10%
Final exam:	30%

3. IMPORTANT DATES

- Deadline to drop with a refund: August 26, 2016
- Deadline to add: September 2, 2016
- Deadline to drop to avoid a “W” on your transcript: September 2, 2016
- Deadline to drop with a “W”: October 14, 2016

4. STUDENT LEARNING OUTCOMES:

Upon completion of this course, students will be able to:

1. apply real number operations to simplify and factor algebraic expressions
2. solve linear and quadratic equations
3. use graphic representation of an equation in two variables to solve appropriate problems

5. COURSE OBJECTIVES:

In the process of completing this course, students will:

1. recognize the real number system, its subsets, and how to perform operations on numbers from these subsets

2. simplify algebraic expressions and solve linear equations and inequalities
3. graph linear equations in two variables and solve systems of linear equations
4. simplify expressions using the properties of exponents and perform operations with polynomials
5. factor algebraic expressions and solve equations of degree greater than one
6. perform arithmetic operations on rational expressions and solve equations containing rational expressions

6. HELP!

You are warmly invited to come and see me whenever you are faced with questions, confusion, insights, or concerns – or to share an exciting discovery. The listed office hours are times when I'm available specifically for you. Take advantage of this opportunity! In addition, whenever my office door is open throughout the week you are welcome to check in for help. If our schedules don't match well, email is a good way to get in touch: feel free to suggest a few times that would work for your schedule and we can make special arrangements to meet face-to-face.

Alternatively, personal help will be available in the Math Center. If math has been a struggle for you in the past, or if you wish to earn an "A" grade, then I strongly recommend regular Math Center participation. It has been very successful in helping students achieve their goals in mathematics.

7. ADVICE

Here are some suggestions for what you can do to succeed:

- Attend every class.
- Do the reading before coming to class. You may not understand all the fine details on first reading. Every time you get stuck reading, formulate a question on that material, and ask it when we discuss that topic on class. Try to identify the general ideas and concepts presented.
- Go through your notes very carefully. Be sure to understand all the ideas and examples discussed in class. Ideally, you should be able to solve the example problems discussed in class on your own, without looking at your notes. If you get stuck, consult your notes, and come to talk to me if you don't understand some of the steps. Don't memorize! Try to understand the reasoning.
- Start the homework assignments immediately and have them ready early.
- Do extra problems. I only assign a sampling of the problems from the text, but you are expected to know how to do most of the problems in the book, not just those that are assigned. Before an exam, it is excellent practice to work through problems that were not assigned in class and ask questions if you have difficulty with them. Also consult the Review sections at the end of the chapters.
- Take advantage of office hours. Office hours are time I set aside for you to come in with the questions you encountered trying to solve the problems. I can help you exactly where you are stuck. So do come with your questions!
- Use other available resources. If you have questions outside of class and office hours, you can come by and check whether my office door is open. I am also very accessible by e-mail, and you should feel free to send me a note at any time.
- Go through the review sheets carefully before the exams. A few days before an exam, I will hand out a detailed review sheet with the material you are expected to know. Use it as an outline for studying. Go through it carefully in advance, asking me questions about material you aren't sure how to do.

- Lastly, if you have a verified need for an academic accommodation or materials in alternate media (e.g. Braille, large print, electronic text, etc.) per the Americans with Disabilities Act or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

Best wishes for a successful semester!