Syllabus for: Elementary Algebra	
Semester & Year:	Spring 2014
Course ID and Section Number:	MATH 380 – M5418
Number of Credits/Units:	5
Day/Time: **Location:**	M, W, F from 1:30 – 3:05 PM Room 114
Instructor's Name:	Diana Dominguez
Contact Information:	Office location and hours: by appointment Email: diana-dominguez@redwoods.edu

Course Description (catalog description as described in course outline): A comprehensive review of arithmetic involving whole numbers, fractions, decimals, and signed numbers. Students will solve problems involving ratios, proportions, percents and geometry. Basic algebra concepts and techniques such as variables, simplifying expressions, solving equations will also be introduced. Problem solving, estimation and the communication of mathematical ideas are an integral part of the course. Use of a scientific calculator will be introduced.

Student Learning Outcomes (as described in course outline):

1. Students should be able to read, write, and speak accurately about mathematical ideas using correct mathematical notation.
2. Students should be able to apply the mathematics they have learned to real-world problems and applications.
3. Students should be able to use graphs and the graphing calculator to explore mathematical concepts and to verify their work.
4. Students should be able to demonstrate competency in the required prerequisite skills for all transfer level math courses.
5. Students should be able to demonstrate the characteristics of an effective learner, such as note-taking, critical reading, etc.
6. Students should be able to explain the concept of function, identify the characteristics of different classes of functions, and use functions to solve problems in mathematics.
7. Students should be able to demonstrate the algebraic skills that will support success in the other outcomes.

Special accommodations: College of the Redwoods complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written accommodation request at least one week before the first test so that necessary arrangements can be made. No last-minute arrangements or post-test adjustments will be made. If you have a disability or believe you might benefit from disability related services and may need accommodations, please see me or contact Disabled Students Programs and Services. Students may make requests for alternative media by contacting DSPS.

Academic Misconduct: Cheating, plagiarism, collusion, abuse of resource materials, computer misuse, fabrication or falsification, multiple submissions, complicity in academic misconduct, and/ or bearing false witness will not be tolerated. Violations will be dealt with according to the procedures and sanctions proscribed by the College of the Redwoods. Students caught plagiarizing or cheating on exams will receive an "F" in the course.

The student code of conduct is available on the College of the Redwoods website at: http://www.redwoods.edu/District/Board/New/Chapter5/AP%205500%20Conduct%20Code%20final%2002-07-2012.pdf

College of the Redwoods is committed to equal opportunity in employment, admission to the college, and in the conduct of all of its programs and activities.

Math 380 Syllabus

Textbook:
Online at *http://mathrev.redwoods.edu/ElemAlgText/*
Graphing calculator TI 83/ TI 84 required

Student Learning Objectives: Upon successful completion of the course, students should be able to:

1. Use properties of real numbers to solve linear equations, inequalities, and systems of linear equations.
2. Solve non-linear equations by factoring.
3. Draw and interpret graphs and solve problems graphically.
4. Use sound mathematical writing and appropriate use of symbolism in presenting solutions of mathematical exercises and applications.

Homework provides you with the practice necessary to reinforce the skills and processes discussed in class. Exam questions will be chosen to be similar in difficulty as those assigned from the homework. Therefore, it is to your advantage to complete every assignment. Homework will be collected every Monday at the beginning of class from the previous week's material. See the attached schedule of homework. Each week's homework packet will be graded out of 10 points. Homework will be spot checked for completeness and one randomly selected problem assigned from each section will be checked for accuracy; if improperly done, one point will be deducted from the homework packets value. Please write each original problem and show all work for full credit. Each student has two late homework opportunities.

Quizzes: In class quizzes will be given throughout the semester. There is no way to predict when a quiz will be given, therefore it is to your advantage to be in attendance the entire class time. No make-up quizzes will be given; the lowest quiz score will be dropped.

Classwork: During group work, you will be asked to work cooperatively with two, or three, of your classmates to solve a problem(s) that I will assign to you. No make-up classwork is available, however the lowest classwork score will be dropped.

Tests: There will be 4 midterm tests and a final in this class. See the attached handout for the dates. I do not give make-up exams. However, the score from the Final Exam can be used to replace a low or missing midterm exam score. Cheating is a very serious offence and anyone caught cheating will receive a grade of "F" for the course, and will be reported to the committee of academic honesty. I expect all problems to be worked out completely and legibly.

Grade Breakdown:

Homework	15%
Quizzes	10%
Class projects	10%
Midterm 1	10%
Midterm 2	10%
Midterm 3	10%
Midterm 4	10%
Final Exam	25%
Total	100%

I will be using the plus/minus grade system. The break down is as follows

A 93-100%	A- 90-92.9%	B+ 87-89.9%
B 83-86.9%	B- 80-82.9%	C+ 77-79.9%
C 70-76.9%	D 60-69.9%	F 0-59.9%

Grades will be updated after each exam. Please see me for your results.

Attendance: Attendance is essential for success, so please come, I want to see you!! In-class activities and quizzes cannot made-up, you can only earn your credit if you attend.

Mathematics Department Policy Regarding "Faculty Withdrawal" of Students after Census Day: A student who is absent from class for the amount of time equal to two weeks of classes, will be withdrawn from the course, unless there areextenuating circumstances that are communicated to the instructor in a timely manner. This "faculty withdrawal" can occur between Week 4 and Week 10 of the semester. Please do not assume that I have dropped you. Students who choose not to continue in the course are responsible for dropping. Failure to officially drop the course may result in an "F".

How to be successful in this course:

Take Responsibility: Your success in this course is dependent upon your choices. I recommend that you attend class every day and keep up with the homework; it is up to you to make this happen. **Getting Assistance:** If you're not understanding a concept, ask for help immediately. Don't' wait until the day before the exam. Your helpers should be coaches, not crutches. When you go to office hours, a study group or the Lab, bring your book, notes, and have a specific list of questions prepared in advance. You should run the session as much as possible. Poor question: "how do you do number 23?" Better question: "I'm having trouble setting up number 23, can you help me?" or "I tried number 23 but am not getting the correct answer. Can you help me find my mistake?" **Make the most of your time:** If you are done with your class work or quiz early, get a head start on your homework, or work on a summary or study guide for the lesson. When doing homework write out complete solutions. Don't just scribble a few lines and write down an answer. The more time you take doing your homework, the less time will be needed going back to review when you study for an exam.

There is a lot you can do to make this a successful experience. Let me know if you would like to hear more tips or suggestions.

Math 380 Homework

	3.4 1-23 odd	6.2 1-57 odd
1.1 1-51 eoo	3.5 1-25 odd	6.3 1-43 eoo
1.2 1-67 eoo, 75	3.6 1-33 odd	6.4 1-45 eoo
1.3 1-71 eoo	4.1 1-29 eoo	6.5 1-83 eoo
1.4 1-67 eoo	4.2 1-47 eoo	6.6 1-59 eoo
1.5 1-61 odd	4.3 1-39 odd	6.7 1-21 eoo
2.1 1-49 eoo	4.4 1-15 odd	7.1 1-75 eoo
2.2 1-55 eoo	5.1 1-45 odd	7.2 1-41 odd
2.3 1-31 eoo	5.2 1-59 eoo	7.3 1-47 odd
2.4 1-37 eoo	5.3 1-15 odd	7.4 1-25 eoo
2.5 1-33 eoo	5.4 1-37 odd	7.5 1-29 eoo
2.6 1-83 eoo	5.5 1-57 odd	8.1 1-41 eoo
3.1 1-25 odd	5.6 1-55 odd	8.2 1-39 eoo
3.2 1-25 eoo	5.7 1-77 eoo	8.3 1-55 odd
3.3 1-29 odd	6.1 1-75 eoo	8.4 1-39 eoo

Note: Odd means 1, 3, 5, 7, …. While eoo (every other odd) means 1, 5, 9, 13, …

Course Schedule

This schedule is subject to modification. Changes will be announced in class.

Week#	Monday	Tue	Wednesday	Thu	Friday	
1	Jan 20 CR Holiday (MLK Jr)	Jan 21	Jan 22 Intro, Syllabus, 1.1, 1.2 An Intro to Integers, Order of Ops	Jan 23	Jan 24 1.3, 1.4 The Rational Numbers, Decimal Notation	
2	Jan 27 1.5, 2.1 Algebraic Expressions Solving Equations	Jan 28	Jan 29 2.2, 2.3 Solving Equations with Fractions, Decimals	Jan 30	Jan 31 2.4, 2.5 Formulas and Applications *(Drop Deadline)*	
3	Feb 3 2.6 Inequalities and Review	Feb 4	Feb 5 Exam Chapter 1 and 2	Feb 6	Feb 7 3.1, 3.2 Graphing Equations	
4	Feb 10 3.3 Rates and Slope	Feb 11	Feb 12 3.4 Slope-Intercept Form of a Line	Feb 13	Feb 14 No Classes (Lincoln)	
5	Feb 17 CR Holiday (Washington)	Feb 18	Feb 19 3.5 Point slope form of a Line	Feb 20	Feb 21 3.6 Standard Form of a Line	
6	Feb 24 4.1, 4.2 Solving Systems by Graphing and Substitution	Feb 25	Feb 26 4.3 Solving Systems by Elimination	Feb 27	Feb 28 4.4 Applications of Linear Systems	
7	Mar 3 Review	Mar 4	Mar 5 Exam Chapter 3, 4	Mar 6 *Deadline: Petition to Graduate*	Mar 7 5.1 Functions	
8	Mar 10 5.2, 5.3 Polynomials and some Application	Mar 11	Mar 12 5.4 Adding and Subtracting Polynomials	Mar 13	Mar 14 (pi day) 5.5 Laws of Exponents	
CR Spr Brk	Mar 17	Mar 18	Mar 19	Mar 20	Mar 21	Mar 22
9	Mar 24 5.6, 5.7 Multiplying Polynomials and Special Products	Mar 25	Mar 26 6.1 The Greatest Common Factor	Mar 27	Mar 28 6.2 Solving Nonlinear Equations	
10	Mar 31 6.3, 6.4 Factoring Trinomials	Apr 1	Apr 2 6.5 Factoring Special Forms	Apr 3	Apr 4 *W/Drawal Deadline* 6.6 Factoring Strategy	
11	Apr 7 6.7 Applications of Factoring	Apr 8	Apr 9 Review	Apr 10	Apr 11 Exam Chapter 5 and 6	
12	Apr 14 7.1 Negative Exponents	Apr 15	Apr 16 7.2 Scientific Notation	Apr 17	Apr 18 7.3 Simplifying Rational Expressions	
13 20th Easter	Apr 21 7.4, 7.5 Solving Rational Equations, Direct and Inverse Variation	Apr 22	Apr 23 8.1, 8.2 Introduction to Radical Notation, Simplifying Radical Exp.	Apr 24	Apr 25 8.3 Completing the Square	
14	Apr 28 8.4 The Quadratic Formula	Apr 29	Apr 30 Review	May 1	May 2 Exam Chapter 7, 8	
15	May 5 Review for Final	May 6	May 7 Review for Final	May 8	May 9 Review for Final	
CR FINALS WEEK	May 12 Final Exam	May 13	May 14 No Class	May 15	May 16 No Class	May 17

Commencement: May 16, DN; May 17, Eureka and KT; May 18, MC.