

Syllabus for: Math 194 Intermediate Algebra for Social Sciences & Business

Semester & Year:	Summer 2014
Course ID and Section Number:	Math 194 – E5791
Number of Credits/Units:	4
Day/Time: Location:	MTWTh 11-12:30 in SC202
Instructor's Name:	Michelle Moreno
Contact Information:	Email: moreno.cr.math@gmail.com

Course Description (catalog description as described in course outline):

A course in which functions are investigated graphically, numerically, symbolically, and verbally in real-world settings with an emphasis on applications to social sciences and business. Linear, quadratic, polynomial, rational, exponential, and logarithmic equations and functions are explored as models of real-life applications. Data analysis and technology are integrated into all aspects of the course.

This course meets prerequisite requirements for Math 5 and Math 15. It does NOT meet the prerequisite for Math 25 or Math 30.

Note: Computer use with spreadsheet software (Excel, etc.) is a necessary part of the course. A graphing calculator is required; TI 83/84 recommended.

Student Learning Outcomes (as described in course outline) :

1. Apply mathematics to real-world problems and applications, with an emphasis on social sciences.
2. Use graphing calculators to explore mathematical concepts and to verify work.
3. Demonstrate competency in required prerequisite skills for transfer-level math courses in statistics and business calculus.
4. Explain the concept of function, identify the characteristics of different classes of functions, and use functions to solve problems related to social sciences and business.
5. Use problem-solving skills, including a multi-step problem solving process.

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/Ap5500.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 194

Intermediate Algebra for Social Sciences & Business
Summer 2014
Section E5791

Instructor: Michelle Moreno
Email: moreno.cr.math@gmail.com
Time & Location: MTWTh 11-12:30 in SC 202

TOPICS: A course in which functions are investigated graphically, numerically, symbolically, and verbally in real-world settings with an emphasis on applications to social sciences and business. Linear, quadratic, polynomial, rational, exponential, and logarithmic equations and functions are explored as models of real-life applications. Data analysis and technology are integrated into all aspects of the course.

This course meets prerequisite requirements for Math 5 and Math 15. It does NOT meet the prerequisite for Math 25 or Math 30.

At the end of this course students should be able to do the following:

1. Apply mathematics to real-world problems and applications, with an emphasis on social sciences.
2. Use graphing calculators to explore mathematical concepts and to verify work.
3. Demonstrate competency in required prerequisite skills for transfer-level math courses in statistics and business calculus.
4. Explain the concept of function, identify the characteristics of different classes of functions, and use functions to solve problems related to social sciences and business.
5. Use problem-solving skills, including a multi-step problem solving process.

These five items are known as the student learning outcomes.

PREREQUISITES: Math 380 (Elementary Algebra) with a grade of "C" or better, or satisfactory performance on the math assessment exam. Prerequisites will be enforced.

TEXTBOOK: Intermediate Algebra Functions and Authentic Applications, Custom Edition with MyMathLab. You may also solely purchase MyMathLab and utilize the online version of the textbook.

REQUIRED MATERIALS:

- A Graphing Calculator: a TI-83/84 is recommended
- Computer with internet access and spreadsheet software such as Excel
- Graph Paper
- Lots of Pencils
- Colored Pencils

HOMEWORK ASSIGNMENTS:

Homework will be assigned on MyMathLab in order for you to perfect your algebra skills and enhance your understanding of concepts discussed in class. You may do homework assignments as many times as you want before the due date. I will only take your highest score.

MyMathLab STUDY GUIDE:

MyMathLab keeps track of problems that you have difficulty with and adds them to your Study Guide. The Study Guide should prove to be a useful tool in order to study effectively for tests.

QUIZZES/ACTIVITIES:

You should expect a weekly quiz covering any material already discussed in class up to that point. Quizzes may be given with or without notice. Quizzes may be given in class or as a take-home using the MyMathLab system. We will also have in-class group activities to enhance learning. **Quizzes/Activities cannot be made-up** regardless of the reason for your absence.

RESEARCH PROJECT:

You will be assigned a research project of your choosing and have the majority of the semester to work on it. This project is meant to be a fun way for you to obtain a clear understanding of the concepts discussed in class and prepare you well for Math 5/15. This project will be due on July 17.

EXAMS:

There will be two exams - a midterm and a final exam as follows:

Midterm: Chapters 1-5 Thursday June 26 (tentative)

Final: Chapters 1-9 Thursday July 31

I will replace your lowest exam grade with your final exam grade (if the final is higher of course).

Exam dates will be announced in class at least one week prior to the date of the exam. Exams generally cannot be made-up.

FINAL EXAM: Chapters 1-9 on **Thursday July 31 10:30-12:00**. The final will **ONLY** be given at this time.

Note: I very much believe in the socratic method of learning, that is your participation is necessary in order for you to learn. With that said, it is imperative that we have an understanding of mutual respect. Students should feel free to answer questions without being ridiculed. Disrespectful behavior toward your professor and/or classmates will not be tolerated.

GRADING:

Homework	10%
Quizzes/Activities	20%
Research Project	20%
Exams	25%
Final	25%

GRADE CUTOFFS:

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

Rounding up to the next grade will be considered for each student and the decision will be based on effort, attitude, and attendance. In other words, don't ask!

TIME: Like all math classes, this class will require a great deal of your time. Make sure that you stay organized, make a schedule, and stick to the deadlines.

FACULTY INITIATED DROP:

1. Students missing the first day of class, Tuesday **May 27, 2014**, **WILL** be dropped that day.
2. Students displaying poor attendance/performance during the first two weeks of the term **MAY** be dropped. If your intention is to drop you should do so - do not expect me to do it for you.
3. It is the policy of the College of the Redwoods Math Department to exercise a "Faculty Withdrawal" for any student who has missed more than 15% of the class meeting time (prior to the drop deadline), due to the severely diminished likelihood of a successful outcome in the course. Again, I may or may not exercise this option and so if your intention is to withdraw from the course you should do so yourself - do not expect me to do it for you.

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