Syllabus for: Math 194

Semester & Year:	Spring 2013
Course ID and Section Number:	Math-194-E2689
Number of Credits/Units:	3 Credit Hours
Day/Time: **Location:**	MW 6:05-8:10 pm PS 111
Instructor's Name:	Brad Morin
Contact Information:	Office location and hours: PS200 Phone: by appointment Email: brad-morin@redwoods.edu

Course Description:
A course in which functions are investigated graphically, numerically, symbolically and verbally in real-world settings. Linear, quadratic, polynomial, rational, radical, exponential, and logarithmic equations and functions are explored. Technology is integrated into all aspects of the course.

Student Learning Outcomes :

1. Evaluate and interpret general functions symbolically, numerically, and graphically.
2. Produce an accurate graph of each function type introduced in the course, identifying and plotting all salient features.
3. Demonstrate appropriate use of technology in analyzing the behavior of functions presented in the course.
4. Use mathematical models to analyze and interpret real-world situations.
5. Use sound mathematical writing and appropriate use of symbolism in presenting solutions of mathematical exercises and applications.

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://redwoods.edu/District/Board/New/Chapter5/AP%205500%20Conduct%20Code%20final%2002-07-2012.pdf

Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the college catalog and on the College of the Redwoods homepage.

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.

Welcome to Math 194—Intermediate Algebra for Business Fields

PS111 -- Monday & Wednesday 6:05-8:10 pm

Spring 2013

Instructor: Brad Morin

Office Location: PS 200

Email: brad-morin@redwoods.edu

Office Hours: After class and by appointment

Math Lab: Optional but quite useful if you need additional help

Register for Math 120L (E2663) using WebAdvisor

Cancelled Class Line: 476-4210 Option 5 -- I will email in case of a cancelled class

Required Text and Materials:

- Intermediate Algebra Functions & Authentic App. custom edition w/MyMathLab Author: Jay Lehmann,
- Online Materials http://www.mymathlab.com. Course ID# **morin69591**
- TI-83 or 84 Graphing Calculator- may rent for $20 from the Math Department: Calculator tutorial at: http://online.redwoods.edu/INSTRUCT/KIYOKOYA/TIHelp/index.htm
- Composition Book - your own reference book to be used on some exams & quizzes

Student Learning Outcomes:

1. Apply the mathematics to real-world problems and applications with an emphasis on business.
2. Use the graphing calculator and spreadsheet software to explore mathematical concepts and to verify their work.
3. Demonstrate competency in the 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 in business applications.
5. Use problem-solving skills, including a multi-step problem-solving process

Course Grading Scheme:

Daily Quizzes Based on Daily Assignments	30%
Four in class Exams	50%
Final Exam	20%

Letter Grades:

A	90-100%
B	80-89%
C	70-79%
D	60-69%
F	0-59%

Homework and Quizzes: Homework will be posted on MyMathLab/CourseCompass site for this course throughout the semester. There will be both online homework and written homework for most sections. Homework is not to be turned in. A quiz will be given on that homework when we meet in the subsequent class period. Making up quizzes is possible, but not the easy way to go.

Exams: Exams will be given in class. During exams, you will be allowed to use your Composition Book, where you can keep formulas, algorithms, examples, or anything you find useful. Typically, my exams are easily finished by all students who know the material. Upon turning in your exam, there will be plenty of time to look over my exam solutions key. You then have the option, for partial credit, to makeup any problems that you think you missed by taking home another copy of the exam and reworking those problems for submission the next time we meet.

Final Exam: The cumulative final is scheduled by the college for Monday May 6th 5:30pm-7:30pm. Do not plan on leaving town before your scheduled final.

Makeup & Extra Credit: Limited opportunities for makeup work and extra credit will be provided, mostly through online and class activities.

Class Participation: I feed on class participation. Everyone must give me at least one wrong answer - unintentionally - during the semester.

Office Hours: I hope to experiment with Skype for some office hours this semester. Many of you have daytime work schedules. We will discuss days and times in class.

My Teaching Philosophy & Goals:

- The purpose of mathematics - besides being cerebral art and a toy for the incurably curious mind - is to find really good shortcuts for life's practical chores, giving us more time to play
- Share the thrill - math can be fascinating (not always -- some of it can be tedious)
- Make the subject and class time enjoyable (not a promise, just a goal)
- Set a high standard for mastering math skills
- Be a resource all students are comfortable approaching
- Manage incentives - inspire/cajole/hoodwink students into eagerly expending time and energy learning Algebra
- Foster in students the confidence for future math classes and/or practical applications

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 are extenuating 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.

**If a student believes that he or she may need an accommodation for a disability, please see me or initiate contact with Disabled Student Programs and Services at 476-4280.

This syllabus is an attempt to help you make plans for the course. Minor modification in this syllabus may be necessary during the semester

Math 194 **Homework & Exams** **Morin**

Spring Semester 2013

Date		Sec	Suggested Problems	Recommended Focus Problems
Jan	14	1.2	1-91 odd,95,97 --	19,39,63,69,79,81,85,95
	15	1.3	1-63 odd --	3,11,21,27,35,41,55,63
		1.4	1-61 odd, 67-71 odd --	1,5,13,17,23,31,39,43,53,57,77
	21	Holiday		
	23	1.5	1-37 odd, 41-73 odd --	3,21,33,43,57,67
		1.6	1-49 odd --	5,11,21,25,33,49
	28	2.1	1,3,5,9,13,15	
		2.2	1,5,7,13,15,19,25	
	30	2.3	1-77 odd,81,85,87,91 --	3,9,17,19,23,29,37,45,49,53,63,65,67,85
		2.4	1-31 odd --	3,9,15,19,29
Feb	4	Chap 1 Review Exercises 1-43		
			Focus Probs --	3,4,6,7,10,14,17,19,23,25,27,30,32,33,34,39,41

		Chap 2 Review Exercises 1-31	
		Focus Probs -- 1,3,5,6,9,14,15,16,18,20,21,26,31	
	6	6:05 pm to 6:20 Review	
		6:20 - 8:10 Exam I	
	11	3.1	1-53 odd -- 3,13,19,23,29,33,39,43,45,49,53
		3.2	1-89 odd, 93 -- 7,9,15,19,23,29,37,45,55,67,69,77,79,88,85,93
	13	3.3	1-17 odd -- 5,11,17
		3.4	1,13 odd -- 1,9
	18	Holiday	
	20	3.4	15-37 odd -- 17,27,31,37
		3.5	1-63 odd -- 9,19,25,31,35,43,47,53,59,63
	25	4.1	1-121 odd -- 1-27odd,31,37,45,49,51,55,59,63,87,91,107,109,117
		4.2	1-69 odd -- 9,13,21,23,27,29,35,45,55,65
	27	4.3	1-51 odd, 54, 61-93 odd -- 7,13,19,23,33,37,43,54,69,73,81
		4.4	3-67 odd -- 3,7,9,17,21,33,43,53,*55
Mar	4	4.5	3,5,9,11,17,21,25,31,35 -- 5,9,11,17,21,35
		Chap 3 Review Exercises - Focus Probs 3,5,11,13,15,19,21,23,27,29,35	
		Chap 4 Review Exercises - Focus Probs 1-27 odd, 31,35,37	
	6	Review 6:05 to 6:20	
		Exam II	
	11	Spring	
	13	Break	
	18	5.1	1-83 odd -- 11,15,21,29,39,47,51,65,75,83
		5.2	1-71 odd -- 3,11,21,25,37,45,47,53,57,63,71
	20	5.3	1-63, 85-95 odd -- 3,11,15,25,29,35,41,47,53,55,59,87,91,95
		5.4	1-23 odd -- 3,7,15,21
		5.5	1-29 odd -- 1,3,9,21,27
	25	5.6	1-47 odd -- 1,5,11,17,29
		Chap 5 Review Exercises - Focus Probs 1,3,7-23 odd, 29-49 odd	
		6.1	1-89 odd -- 5,13,19,27,43,47,55,61,69,81,85,89
	27	6.2	1-117 odd -- 7,17,31,37,47,51,61,71,79,89,107,113,117
		Chap 6 Review Exercises - Focus Probs 1-19 odd	
April	1	Review 6:05 to 6:20	
		Exam III	
	3	7.1	1-63 odd -- 7,17,21,29,35,47,55
		7.2	1-51, odd, 57, 61-67 odd -- 1,3,9,19,33,41,51,57,63
	8	7.3	1-63 odd -- 5,7,15,21,25,31,39,47,53,61,63
		7.4	1-51 odd -- 1,9,21,31,35,45,47,51
		7.5	1-71 odd -- 1,13,15,17,25,31,41,49,51,55,61,65,69
	10	7.7	1-9 odd -- 3,9
		7.8	1-7 odd, 13, 15 -- 1,7,13
	15	8.1	
		8.2 lightly	
		8.3 lightly	
	17	8.4 lightly	
		8.5	
	22	8.6	
		Review	
	24	Review	
		Exam IV	
	29	9.1	

		9.2 lightly
		9.3 lightly
		9.5
May	1	Review for Final
	6	**Final Exam Monday 5:30 - 7:30 pm**