

Syllabus for: Math30- Brad Morin

Semester & Year:	Fall 2015
Course ID and Section Number:	Math-30-E8002
Number of Credits/Units:	4
Day/Time: Location:	MTThF 8:30 am - 9:35 am SC204
Instructor's Name:	Brad Morin
Contact Information:	Email: brad.morin@gmail.com Office Hour by appointment

Course Description:

A course covering first-degree and absolute value equations and inequalities; composite and inverse functions; polynomial, rational, exponential, and logarithmic functions; systems of equations and inequalities; matrices; sequences and series; mathematical induction; binomial expansion theorem; and complex numbers.

Student Learning Outcomes (as described in course outline) :

1. Accurately communicate mathematical ideas using correct mathematical notation, graphs, and vocabulary.
2. Demonstrate appropriate use of the graphing calculator to explore mathematical concepts and to verify their symbolic conclusions.
3. Solve problems and applications demonstrating the skills required for college-level math and science.
4. Demonstrate the characteristics of an effective learner, such as note-taking, critical reading, communication through writing, verbal discussions, etc.
5. Explain the concept of a function, identify the characteristics of different classes of functions, and use functions to solve the problems of mathematics.
6. Perform symbolic manipulations and use technology that will support success in the 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://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.

Instructor Availability:

Email: brad-morin@redwoods.edu
Available for help by appointment.

Textbook: Algebra & Trigonometry, 8th Edition by Sullivan (not 9th edition).

Amazon links, check all to find the best price on the textbook
Instructor's Edition 8th Edition (why not?)
Value Pack 8th Edition
Hardcover 8th Edition
Hardcover 8th Edition (alternate option)
Text book for College Algebra
The Library may have some copies to use.
Check the book store.

Course Equipment: TI-83 Calculator or TI-84 (TI-89 won't work well for our class).

Bring text, calculator, and homework on lecture days -- calculator on exam days.

Basis for Grade:

25% Daily Quizzes on homework given at the end of class
50% Semester Exams.
25% Final Exam

Quizzes:

Daily quizzes will be either directly from the homework, or similar to a homework problem. Homework is not turned in. You use your homework in taking the quiz.

Exams:

Exam question will be directly from, or else quite similar to, the homework.

Makeup Exams and Quizzes:

Makeup work will not provide a shortcut to getting an acceptable grade.
Makeup work will be demanding — an option to be used rarely.

Grading: There are two tracks to choose from.

Track A consists of more challenging homework problems and more challenging exams.

Track C consists of easier exam questions and homework, but still covers the subject.

Track A is the only way to get an A, and a good option for earning a B.

Track C is the best option for earning a C grade, and an option for earning a B.

Track A Grade Scale:

A 93% - 100%	A- 90%-92%	
B+ 87%-89%	B 83% - 86%	B- 80% - 82%
C+ 77% - 79%	C 70% - 76%	
D 60% - 69%		
F Below 60%		

Learning Resources:

Recommended -- Math Lab <http://www.tamimathcr.com/mathlab-f15.html>

Disabled Student Programs and Services

Academic Support Center

The L.I.G.H.T. Center

GUID 145

Placement: Make certain this course is appropriate for your skills and experience.

Modifications and additions to this syllabus will be necessary.

Homework & Exams

The dates given below are the days the sections are covered in class. The **suggested homework** could be started on that day in preparation for the quiz the next day of class. The quiz is one point, all or nothing. During the quiz, you are allowed access to your completed homework. **Making up quizzes** will not be easily done, but it will be possible on the Art of Problem Solving web site.

Sometime in the first or second week of the course I will introduce you to a website done by The Art of Problems Solving.

If you want to spend time on some interesting problems that will deepen your math comprehension and give you **makeup credit for missed quizzes**, the Art of Problem Solving site will be the place to do it, using the link below.

<http://www.artofproblemsolving.com/>

Using Alcumus, on The Art of Problem Solving, you will get credit for each level you pass in the topics Algebra, Geometry, Number Theory, and Counting & Probability. This will not be the easy way to get quiz credit. It will be far easier to do the assignments and pass the quizzes. But, it is an option where the problems are far more entertaining than homework. Art of Problem Solving extra credit, subject to verification, will apply to:

A makeup quiz for each alcumus level passed.

Or, two additional exam points for each alcumus level passed.

I will introduce you to desmos.com, another option for extra credit. You can create a picture using equations and inequalities for five extra exam points.

Date	Section	Assigned Problems	— *Asterisk Problems are only for students working for an A or B grade
Aug	24	R.2	37,47,57,74,75,76,77,83,87,93,119,125,127
		R.3	13,21,29,31,*37,*38,*39,*40,41,42,47,*50
	25	R.4	29,39,45,65,69,75,79,85,93,95
		R.5	5,11,15,21,25,33,39,51,57,77,93,105,*121,*125
	27	R.6	7,11,13,17,25
		R.7	5,17,25,43,47,63,*65,73,*75,81,*85
		R.8	7,11,17,33,47,55,61,*71,*77,*89,*103
	29	1.1	9,11,15,23,25,33,45,49,55,*59,69,*71,*73,77,79,*81
	1.2	11,21,31,35,41,51,61,85,*87,*105,*125,*128	
Sep	31	1.3	13,17,19,25,27,33,35,41,53,59,*67,*69,73,*81,*83
	1	1.4	7,11,15,19,23,27,31,35,43,47,51,55,61,67,71,77,81,*89,*91,*93,*95
		1.5	11,23,31,39,45,53,55
	3	1.5	59,63,67,71,75,79,83,87,*91,*95,*99,*115,*117,*119
		1.6	9-61 EOO (every other odd), 67,*71,*73,*83,*85,*91
	4	1.7	7-41 odds, *43,*45,*47,*49
	7	Labor Day - CR Holiday	
	8	Chapter R Review Exercises pages 82-83 41,45,55,61,75,91,93 Chapter 1 Review Exercises pages 150-151 3,7,13,17,23,27,29,*31,41,49,53,55,	
		*59,63,69,*73,77,83,*89,97,99,103	
	10	Exam 1	
	11	2.1	6-10,11,13,15,19,29,31,35,37,45,*46,47,*51
		2.2	21,25,29,39,41,45,59,61,*69,*85,*87
	14	2.3	1-10,13-105 EOO (every other odd), *111,*112,*113,*136,*137
	15	2.4	3-6, 7-41 odd, *47,*48,*53,*57
	17	2.5	3-19 odd, *23,*31,*33,*35,*38
	19	3.1	19,29,31,33,39,41,47,51,57,*60,61,67,73,75,*81,*86
	21	3.2	4-8, 9-25 odd, 35,37,39,*43,*46
	22	3.3	7-10, 11-21 odd, 27,29,33,35,45,53,*59,*63
	24	3.4	6-16, 22,25,28,29,33,37,*41,*43,*45
	25	3.5	7-18, 19-27 odd, 35,39,41,43,47,*53,*57,*65,*69
	28	3.6	1,7,11,*21 Chapter 2 Review Exercises pages 202-203: 9,11,*13,15,17,21,25,29,33,41,*43,*51
	29		Chapter 3 Chapter Test pages 274-275: 1-11 all, *12
Oct	1	Exam 2	
	2	4.1	7-12,13,15,19,21,23,31,*35,*41
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9 **Veterans Day - CR Holiday**

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26 **Thanksgiving**
27 **CR Holiday**

Dec

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Final Exam