Syllabus for: Math30– Brad Morin

Semester & Year:	Summer 2015
Course ID and Section Number:	Math-30-E8592
Number of Credits/Units:	4
Day/Time: **Location:**	MTWTh 9:00 am – 10:35 am SC208
Instructor's Name:	Brad Morin
Contact Information:	Math Lab Hours: MTWTh – 1:15 - 2:45 pm Email: brad.morin@gmail.com

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
    Math Lab Hours: MTWTh 1:15 - 2:45 PM
    Other times 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 chose 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%

Track C Grade Scale:
  B 96% - 100%
  B- 93% - 95%
  C+ 90% - 92%
  C 81% - 89%
  D 71% - 80%
  F Below 71%

Changing Tracks:
  If you are in track A and scoring below 80%, you are moved to track C with an added 13%.
  If in track C and scoring above 93%, you have the option to move to track A, adjusted -13%.

Learning Resources: Overview at http://msenux.redwoods.edu/mathdept/courses/math30.php.php
  Recommended -- Math Lab
  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.

Makeup exam credit can be obtained after each exam (restoring a small portion of the points missed on the exam) by resubmitting the exam with corrections. Generally, one week will be given to complete that option.

If you want to spend time on some interesting problems that will deepen your math comprehension and give you makeup credit for missed quizzes, register on the Art of Problem Solving site using link below.
  http://www.artofproblemsolving.com/

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 and 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, one additional point on an exam score for each alcumus level passed.

			Assigned Problems	Possible Extra Credit on Exams
Date		Section	Track C — Track A —	*Track A Asterisk Problems .
May	26	R.2	37,47,57,77,83,87,119,127 —	3s‚7,55,62,76,93,105,125
		R.3	13,21,29,31,41,47 —	33,37-40,42,50
		R.4	29,45,65,69,85 —	39,64,75,80,83,93
		R.5	5,15,25,33,39,51,57,77,93 —	11,21,34,40,56,78,94
	27	R.6	7,11,17 —	7,13,25
		R.7	5,17,43,47,63,73 —	25,47,65,75
		R.8	7,11,17,33,47,55 —	17,33,47,55,71,89
	28	1.1	9,23,33,49,59,79 —	33,49,59,77,81,82
		1.2	11,21,31,35,41,51,61 —	11,21,31,35,41,51,61,85,105,125,128
		1.3	13,17,19,25,27,33,41,53 —	13,17,19,25,27,33,35,41,53,59

June	1	1.4	7,11,15,19,23,27,31,35,43,47,51,55,61,67,71,77,81 —
			19,23,27,31,35,39,43,47,51,55,59,63,67,71,77,81,89,91,93,95
		1.5	11,23,31,39,45,53,55,59,63,67,71,75,79,83,87 —
			11,23,31,55,59,63,67,71,75,79,83,87,91,95,99 — *115, *117, *119
	2	1.6	9-61 EOO (every other odd), 67 — 9-61 EEO (every other odd), 71,73,83,85 — *91
		1.7	7-21 odds — 7-21 odds
	3	1.7	23-41 odds — 23-51 odds
		2.1	11,13,15,17,21,25,27,33,37,39,41 — 15,17,23,27,33,37,39,41,45,49,51,59,63
	4	2.2	3-10,17,19,23,29,31,35,41,43,44,45,51,53,59,61,63 —
			3-10,19,23,29,31,35,41,43,44,45,53,57,59,61,63,67,75-81 odd
		2.3	1-10,13-105 EOO — 1-10,13-105 EOO,111,112,113
			EOO (every other odd) numbers are numbers one greater that multiples of four — 1,5,9,13, etc

	8	2.4	3-6, 7-39 — 7-47 odd, 48,53,56
		2.5	3-17 odd — 3-23 odd, 31,33,35,38
	9	Review Chapter R Exercises, pages 82-83: 25,29,45,51,61,77,91 — 41,49,53,69,79,91,95
		Review Chap 1 Exercises, pages 150-151: 7,23,31,39,47,53,55,61,69,91,99 —
			7,23,31,39,47,53,55,63,69,91,95,97,99
		Review Chap 2 Exercises, pages 202-203: 3,9,11,15,17,21,27,29,33,41 —
			11,13,15,17,25,29,35,43,51
	10	**Exam 1**

| | 11 | 3.1 |
| | | 3.2 |

	15	3.3
		3.4
	16	3.5
		3.6
	17	4.1
		4.2
	18	4.3
		4.4

	22	4.5
		5.1
	23	5.2
		5.3

	24	5.3
		5.4
	25	5.5
		5.6
	29	Review Chap 3, 4, & 5
	30	Exam 2
July	1	6.1
		6.2
	2	6.3
		6.4
	6	6.4 finished
		6.5
	7	6.6
		6.7
	8	6.8
		6.9
	9	12.1
		12.2
	13	12.3
		12.4
	14	Review Chap 6 & 12
	15	Exam 3
	16	13.1
		13.2
	20	13.3
		13.4
	21	13.4 finish
		13.5
	22	14.1
		14.2
	23	Review Chap 12, 13, & 14
	27	Review Chap 4, 5, & 6
	28	Review Chap R, 1, 2, & 3
	29	Final Part 1
	30	Final Part 2