

Syllabus for College Algebra– Eureka Campus

Semester & Year	Fall 2016	
Course ID and Section #	Math 30 — E0339	
Instructor's Name	Brad Morin	
Day/Time	MWF 1:15 - 2:30 pm	
Location	SC 204	
Number of Credits/Units	4	
Contact Information	<i>Office location</i>	None
	<i>Office hours</i>	By Appointment
	<i>Phone number</i>	None
	<i>Email address</i>	brad-morin@redwoods.edu
Textbook Information	<i>Title & Edition</i>	Algebra & Trigonometry, 8th Ed, or 7th Ed
	<i>Author</i>	Michael Sullivan
	<i>ISBN</i>	978-0131361225

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. Evaluate and interpret a difference quotient symbolically, numerically, and graphically.
2. Find and interpret the real and complex roots of a polynomial symbolically, numerically, and graphically.
3. Produce an accurate graph of a rational function by hand, and identify all salient features.
4. Demonstrate and interpret the inverse relationship between exponential and logarithmic functions.
5. Solve problems and applications involving exponential and logarithmic functions.
6. Solve 3x3 linear systems of equations using matrices and elimination, and interpret the nature of the solution set geometrically.
7. Recognize and solve problems involving arithmetic and geometric sequences and series.

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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 at 707-476-4280.

Academic Support

Academic support is available at [Counseling and Advising](#) and includes academic advising and educational planning, [Academic Support Center](#) for tutoring and proctored tests, and [Extended Opportunity Programs & Services](#), for eligible students, with advising, assistance, tutoring, and more.

Academic Honesty

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct (AP 5500) is available on the College of the Redwoods website at: www.redwoods.edu/district/board/new/chapter5/documents/AP5500StudentConductCodeandDisciplinaryProceduresrev1.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 website.

Disruptive Classroom Behavior

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process a disruptive student may be temporarily removed from class. In addition, he or she may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct (AP 5500) is available on the College of the Redwoods website at: www.redwoods.edu/district/board/new/chapter5/documents/AP5500StudentConductCodeandDisciplinaryProceduresrev1.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 website.

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Emergency Procedures for the Eureka campus:

Please review the campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). The Eureka **campus emergency map** is available at: (http://www.redwoods.edu/Eureka/campus-maps/EurekaMap_emergency.pdf). For more information on Public Safety, go to <http://redwoods.edu/safety/> In an emergency that requires an evacuation of the building:

- Be aware of all marked exits from your area and building.
- Once outside, move to the nearest evacuation point outside your building:
- Keep streets and walkways clear for emergency vehicles and personnel.
- Do not leave campus, unless it has been deemed safe by the Incident Commander or campus authorities. (CR's lower parking lot and Tompkins Hill Rd are within the Tsunami Zone.)

RAVE – College of the Redwoods has implemented an emergency alert system. In the event of an emergency on campus you can receive an alert through your personal email and/or phones at your home, office, and cell. Registration is necessary in order to receive emergency alerts. Please go to <https://www.GetRave.com/login/Redwoods> and use the “Register” button on the top right portion of the registration page to create an account. During the registration process you can elect to add additional information, such as office phone, home phone, cell phone, and personal email. Please use your CR email address as your primary Registration Email. Your CR email address ends with “redwoods.edu.” Please contact Public Safety at 707-476-4112 or security@redwoods.edu if you have any questions.

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
After class. Other times by appointment.
Math Lab
Monday 10:00 - 11:30
Wednesday 10:00 - 12:00

Textbook: Algebra & Trigonometry, 8th Edition or 7th Edition by Sullivan (not 9th edition).

8th Edition copies that can be checked out for a two hour period from the library.
Check the following Amazon links if you want a reasonable purchase price for the 8th Edition
Instructor's Edition 8th Edition (why not?)
Hardcover 8th Edition
Hardcover 8th Edition (alternate option)
7th Edition copies can be checked out from the library for the term (there are 42 available).
Four 7th Edition copies are available for two-hour checkout.
Check the following Amazon links if you want a reasonable purchase price for the 7th Edition.
Hardcover 7th Edition

Course Equipment: TI-84 Calculator. I recommend the TI-84 Plus CE, a newer model, well priced.

Which is also available at Staples for a better price if you don't mind the rebate hassle.
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 questions 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 as a last resort.

Grading:

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.

Fall Semester 2016

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 credit can be obtained by doing select problems on the Art of Problem Solving. 1 quiz makeup for reaching blue bar status. Sign up is free. Problems tend to be challenging and interesting. There is much to be learned and reinforced here. Go to:

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

Get registered.

Log on.

Select the menu option Resources

Select Alcumus

You might have to select Play

Set, or Change Focus to Geometry and select one of the following:

The Pythagorean Theorem

Special Right Triangles

Right-Triangle Trigonometry

Unit Circle Trigonometry

Set, or Change Focus to Algebra and select one of the following:

Completing the Square

Graphing Circles

Difference of Squares

Rationalizing Denominators

Absolute Value

Exponential and Logarithmic Basics

Logarithmic Basics

Set Focus

Date	Section	Assigned Problems	*Asterisk Problems are potential extra credit questions on an exam.
Aug	29	R.2	8th 37,47,57,74,75,76,77,83,87,93,119,125,127 7th same
	31	R.3	8th 13,21,29,31,41,42,47 — *37,*38,*39,*40,*50 7th 9,17,25,27,39 — *33,*34,*35,*36,*42
		R.4	8th 29,39,45,65,69,75,79,85 7th same
2	R.5	8th 5,11,15,21,25,33,39,51,57,77,93,105 — *121,*125 7th same	
	R.6	8th 7,11,13,17,25 Section R.4 91,93,95 7th 7,9,5,23,27,29,33,41	
5	Labor Day — CR Holiday		
7	R.7	8th 5,17,25,43,47,63,73,81 — *65,*75,*85 7th 5,17,25,43,47,63,73,81 — *65,*75,*83	7th Edition problems
	R.8	8th 7,11,17,33,47,55,61 — *71,*77,*89 7th 5,9,15,31,45,53,59 — *69,*75,*87	7th Edition problems
9	1.1	8th 9,11,15,23,25,33,45,49,55,69,77,79 — *59,*71,*73,*81 7th same	7th Edition problems
	1.2	8th 11,21,31,35,41,51,61,85 — *87,*105,*125,*128 7th 11,21,31,35,41,51,61,81 — *83,*97,*115,*118	7th Edition problems
12	1.3	8th 4-8 all, 13,17,19,25,27,33,35,41,43,45,49,51,53,59,67,69,73,81,83 7th same	7th Edition problems
14	1.4	8th 7,11,15,19,23,27,31,35,43,47,51,55,61,67,71,77,79,81 — *89,*91,*93,*95 7th 7,11,15,19,23,27,31,35,43,47,51,55,61,67,71,77,79,81 — *87,*89,*91,*93	
	1.5	8th 6,7,8,9,11,23,31,39,45,53,55 7th same	
	1.6	8th 59,63,67,71,75,79,83,87,89,91 — *95,*99,*115,*117,*119 7th 59,63,67,71,75,79,83,87,89,91 — *95,*99,*115,*117,*119	
16	1.6	9-29 EOO (every other odd), 35-57 odds, 67 — *71,*73,*83,*85,*91	
	1.6	7th 9-29 EOO (every other odd), 31-53 odds, 57 — *61,*63,*73,*75,*81	
19	1.7	7-27 odds, 33-41 odds — *43,*45,*47,*49 7th 7-27 odds, 29-37 odds — *39,*41,*43,*45	
	21	Chapter R Review Exercises pages 82-83 exercises 41,45,55,61,75,91,93 7th pages 80-84 exercises 41,45,55,61,75,81,83 Chapter 1 Review Exercises pages 150-151 3,7,13,17,23,27,29,41,49,53,55,	

7th 63,69,77,83,,97,99,103 — *31,*59,*73,*89
 pages 152-154 3,7,13,17,23,27,29,41,49,53,55,
 63,69,77,83,,99,101,105 — *31,*59,*73,*89

23 Exam 1

	26	2.1	6-10,11,13,15,19,29,31,35,37,45 — *46,47,*51
		2.2	21,25
	28	2.2	29,39,41,45,59,61 — *69,*85,*87
		2.3	1-10,13-105 EOO — *111,*112, *113,*136,*137
	30	2.4	3-6, 7-41 odd — *47,*48,*53,*57
Oct	3	2.5	3-19 odd — *23,*31,*33,*35,*38
	5		
	7		
	10		
	12		
	14		
	17		
	19		
	21		
	24		
	26		
	28		
	31		
Nov	2		
	4		
	7		
	9		
	11		Veterans Day — CR Holiday
	14		
	16		
	18		
	21		
	23		
	25		Thanksgiving Holiday — CR Holiday
	28		
	30		
	2		
	5		
	7		
	9		
Final	Dec 14, Wednesday, 1:00 - 3:00 PM		