MATH-30-E7027: College Algebra	
Semester & Year:	Spring 2015
Course ID and Section Number:	MATH-30-E7027
Number of Credits/Units:	4 units
Day/Time: **Location:**	T TH 6:05 – 8:10 PM SC 204
Instructor's Name:	Mr. Jon Pace
Contact Information:	Office hours: TH 2:30 – 4:30 TBD Email: jonothan-pace@redwoods.edu **or via MyCr**

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

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

Graphing calculator required, TI-83 or 84 recommended.

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.

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.

*** I reserve the right to change this syllabus at any time.**

MATH-30-E7027 College Algebra – Spring 2015

Text Book

Recommended: Algebra and Trigonometry (8th edition), by Sullivan, published by Prentice Hall (ISBN #0132329034)

Will work: Algebra and Trigonometry (7th edition), by Sullivan, published by Prentice Hall (ISBN #0131430734)

I will be assigning problems out of the 8th edition. There is a complete mapping between 8th edition and 7th edition on the Math 30 course page.

A limited number of textbooks are available at the College library. Go to the main desk and ask to check out a copy (either 7th or 8th edition) from the library for the entire semester. There are also 2-hour checkouts of the textbook available at the main desk of the library.

Recommended

1. Math Lab
2. I would recommend forming study groups. They are a great way to study for exams and do homework problems.
3. The Math 30 course page is located at: http://msenux.redwoods.edu/math/courses/math30.php

Classroom Environment

It is essential to our class that both students and teacher behave in a manner that will provide a comfortable learning atmosphere. Be respectful of one another. You should not hesitate to ask questions nor feel embarrassed to ask a question or ask for help. **Turn off cell phones before entering the classroom**. If your cell phone goes off during class, you will have to apologize to the class by bringing in treats for everyone the next class period.

Exams

There will be 5 exams comprising 40% of the course grade and a cumulative final exam worth 15% of your course grade. I will notify you at least one week in advance as to the date of each exam (see course schedule). Before each exam, I will post a practice exam on MyCr. All exams need to be taken in class on the day of the exam or in the ASC with proper authorization.

Final Exam: Tuesday, May 12th from 6:05 – 8:10 PM

Homework

Homework will be assigned each class period and each section of homework is worth 10 points. The homework for each section will be posted on MyCr. **Homework is due at the beginning of class each Tuesday and each section should be turned in separately.** The only way to learn math is to practice and homework is the practice. Homework will be graded based on completeness, neatness, the following of directions, and accuracy. Make sure you read and comply with the **GUIDELINES FOR HOMEWORK** at the end of this syllabus. Sloppy or unreadable homework will be returned with a grade of zero. I understand that life happens leaving you unable to turn in a given homework assignment; therefore, **the 3 lowest homework scores will be dropped.**

OptiMath: In addition, each section will have a corresponding practice assignment on OptiMath. These are not graded assignments but the quizzes will mirror these practice assignments closely. You should immediately log into and familiarize yourself with OptiMath.

Quizzes

I may schedule an in class quiz at any time. You will be notified the class period prior.

There will be a quiz every week in Optimath. The quiz will open at the beginning of class on Tuesday and close before the beginning of class the following Tuesday. You may attempt the quizzes as many times as you want while they are open.

Grades

Your final grade will be determined as follows:

Homework:	25%
Quizzes:	20%
Exams:	40%
Final Exam:	15%

The grade breakdown is as follows:

A	93 - 100%	C+	77 - 79%
A-	90 - 92%	C	70 - 76%
B+	87 - 89%	D	60 - 69%
B	83 - 86%	F	0 - 59%
B-	80 - 82%		

Guidelines for Homework

Please adhere to the following guidelines before turning in your homework assignments:

1. Staple all homework in the **upper left hand corner**.
2. Label your homework with your name and section number in the upper right hand corner.
3. Write your problems in order down the page. You may use both sides of the paper.
4. Box your answers to each exercise.
5. You must use pencil when doing your homework, and you must write legibly and neatly.
6. Be sure to show your work when solving a problem. A problem with just the answer and no work shown will not receive any points.
7. When creating a graph, you must use graph paper and a ruler or straight edge. When graphing, make sure that you label your axes and scaling or points will be taken off.
8. Remove all "frillies" from the side of the page if you tear it out of a notebook.

*** Again, this syllabus and course schedule are subject to change at my discretion.**

Math 30 - E7027, Spring 2015
1st Half Schedule

Date	Sections Covered (8th edition)	Homework Due Date
	Week #1	
Jan. 20th	Class Intro, Sections 1.1, Factoring Review	Tuesday, Jan. 27th
Jan. 22nd	Sections 1.2, 1.4	
	Week #2	
Jan. 27th	Sections 1.5, 1.6	Tuesday, Feb. 3rd
Jan. 29th	Sections 1.6, 1.7	
	Week #3	
Feb. 3rd	Sections 3.1, 3.2	Tuesday, Feb. 10th
Feb. 5th	Sections 3.3, 3.4	
	Week #4	
Feb. 10th	Section 3.5	Tuesday, Feb. 17th
Feb. 12th	Section 5.1 (6.1), Exam #1 Review	
	Week #5	
Feb. 17th	**Exam #1,** Section 3.6	Tuesday, Feb. 24th

Date	Sections Covered (8^{th} edition)	Homework Due Date
Feb. 19^{th}	Sections 4.1, 4.2 (4.3-4.4, 5.1)	Tuesday, Feb. 24^{th}
Week #6		
Feb. 24^{th}	Sections 4.3, 4.4 (5.2, 5.3)	Tuesday, Mar. 3^{rd}
Feb. 26^{th}	Section 4.5 (5.4)	
Week #7		
Mar. 3^{rd}	Sections R6, 4.6 (5.5)	Tuesday, Mar. 10^{th}
Mar. 5^{th}	Sections 1.3, 4.7 (5.6)	
Week #8		
Mar. 10^{th}	Section 5.2 (6.2), Exam#2 Review	Tuesday, Mar. 24^{th}
Mar. 12^{th}	**Exam #2,** Section 5.3 (6.3)	
Spring Break 3/16 – 3/20		

*** I reserve the right to change this schedule as I see fit.**

Math 30 - E7027, Spring 2015
2nd Half Schedule

Date	Sections Covered (8th edition)	Homework Due Date
	Week #9	
Mar. 24th	Sections 5.3, 5.4 (6.3, 6.4)	Tuesday, Mar. 31st
Mar. 26th	Section 5.5 (6.5)	
	Week #10	
Mar. 31st	Sections 5.6, 5.7 (6.6, 6.7)	Tuesday, Apr. 7th
Apr. 2nd	Section 5.8 (6.8) Exam #3 Review	
	Week #11	
Apr. 7th	**Exam #3,** Section 11.1 (12.1)	Tuesday, Apr. 14th
Apr. 9th	Section 11.2 (12.2)	
	Week #12	
Apr. 14th	Sections 11.3, 11.4 (12.3, 12.4)	Tuesday, Apr. 21st
Apr. 16th	Section 12.1 (13.1), Exam #4 Review	

Date	Sections Covered (8^{th} edition)	Homework Due Date
Week #13		
Apr. 21^{st}	**Exam #4,** Section 12.2 (13.2)	Tuesday, Apr. 28^{th}
Apr. 23^{rd}	Section 12. 3 (13.3)	
Week #14		
Apr. 28^{th}	Section 12.4 (13.4)	
Apr. 30^{th}	Sections 12.5 (13.5)	Tuesday, May 5^{th}
Week #15		
May 5^{th}	Exam #5 Review, **Exam #5**	
May 7^{th}	Final Exam Review	
Final Exam: Tuesday, May 12^{th}, 6:05 – 8:10 PM		

*** I reserve the right to change this schedule as I see fit.**