Syllabus for Math 30: College Algebra	
Semester & Year:	Fall 2013
Course ID and Section Number:	MATH-120-D4128
Number of Credits/Units:	4
Day/Time: **Location:**	Monday, Tuesday, Wednesday, Thursday 12:30-1:35 DM 15
Instructor's Name:	Mike Haley
Contact Information:	Office location and hours: E6, Tuesday 1:35-2:00 pm, Thursday 9:55-10:20 am, By Appointment Phone: (707) 465-2335 Email: mike-haley@redwoods.edu

Course Description (catalog description as described in course outline):
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 (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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MATHEMATICS 30: College Algebra, Fall 2013

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Phone: 465-2335
Email: mike-haley@redwoods.edu
Website: http://dn.redwoods.edu/coursenotes/haley/

TEXTBOOK: *Algebra & Trigonometry*, Seventh ***or*** Eighth or Ninth Edition, by Sullivan (ISBN #0131430734 or ISBN #0132329034 or ISBN # 978-0321716569). You may use either edition that you prefer, however the seventh edition will be much cheaper than the other editions and will contain the same information.

TOPICS: 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: Upon completion of this course, students will be able to accomplish the following:

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.
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EXPECTATIONS: I expect that everyone is treated with respect in our class. Please go out of your way to be considerate of others since this will enhance the quality of the learning environment in our classroom. I expect that you use cell phones and computers appropriately and in a manner that does not disturb any fellow students or the instructor; this implies that at the very least there should not be any sound coming from your cell phone and you only utilize applications that have course content related material. Additionally, you should be on time to class and avoid leaving early in order to minimize disruption. The Student Code of Conduct addresses many issues that arise on a college campus and you should be aware of the agreement that you have made as an enrolled student.

MATERIALS: Besides the mentioned text, you will need to obtain the following for this class:

a) A TI-83+ or TI-84.
b) Graph paper (available on the class website).
c) A notebook to keep lecture notes and returned work in.
d) A bound notebook for a Math 30 Reference Book.
e) Lots of pencils and an eraser.

GRADE SYSTEM: Your final grade will be determined as follows

Homework	15%
Participation	5%
Exams	45%
Quizzes/Activities	15%
Final Exam	20%

I will be using the plus/minus grade system. The break down is as follows

A	93-100%	B	83-86.9%	C	70-76.9%
A-	90-92.9%	B-	80-82.9%	D	60-69.9%
B+	87-89.9%	C+	77-79.9%	F	0-59.9%

HOMEWORK: Homework will be a regular aspect of this class, and I expect that it will be done in an organized, neat and readable fashion. The quality of your homework presentation is important to me since it representative of your understanding of coursework. Homework is where you get to polish the skills that we have learned in class. Your lowest homework score will be dropped, however I will not accept late homework. See **Guidelines for Homework Assignments**.

EXAMS: There are four closed book exams that will occur on **Wednesday September 18, Wednesday October 16, Tuesday November 12, and Monday December 2**. The exams are held during the class hours published in the schedule of classes. Please be aware that regardless of the time you begin the exam, the deadline is at the end of the scheduled class time. If you are using the test proctoring services located in DSP&S, be advised that you must schedule a time that overlaps with the published course time of the class in which you are enrolled. You must schedule a time with Erica Silver in the DRC and report it to me at least 24 hours before the published exam time. If you fail to attend the exam time or the exam time that you have scheduled then you forfeit your opportunity to take the exam. No make up exams will be offered, however, your low exam score will be dropped.

QUIZZES/ACTIVITIES: There will be approximately one quiz each week. The quizzes will be similar to the homework problems. At least one quiz will be dropped but make-up quizzes will not be available..

FINAL EXAM: The final exam will be held on **Tuesday, Dec 10** from 12:30-2:35 pm. The final exam may consist of at least one part that is closed book/notes and without the use of the calculator. I will give further information that clearly explains the scope of the exam.

ATTENDANCE: To succeed in a mathematics class you need to attend every class meeting. The CR Catalog defines four absences as excessive for a four unit class. If you have to miss class, make prior arrangements with a fellow student to get any notes or materials covered that day. You are responsible for the all material covered even if you don't attend class. I will remind you again that it is a great idea to get a study partner.

PARTICIPATION: The participation grade is positively affected by your involvement in the class, attendance, punctuality, and negatively affected by physical and electronic disturbances.

STUDY GROUPS and TUTORING: In my opinion, there are few things that are more difficult than going through a mathematics class alone. This may be a very challenging course for you and you should plan on spending at least 8 hours of work per week on this course outside of class. Tutoring is always available in the DSP&S offices.

OFFICE HOURS: My office hours have been set up for your convenience and they are dedicated to focusing on your needs. Take advantage of these hours to ask me questions that you have been unable to resolve with your study partners and other concerns you might have. The best use of your time is to come to the office with a clear idea of what you need from me in order to attain your immediate goal.

DISABILITIES: If you are a student with a disability or if you think that you could benefit from disability-related services, you may either speak to me or you may contact our Disabled Student Programs and Services Office on campus.

DISCLAIMER: While every attempt will be made to keep minimal changes to this document during the semester, like most other things, it is subject to change.

Last update 8/25/13

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