Syllabus for Math 30 College Algebra – Eureka Campus		
Semester & Year	Summer 2016	
Course ID and Section #	Math 30 Section 041559	
Instructor's Name	Amber Buntin	
Day/Time	Monday-Thursday 9:00am-10:35am	
Location	SC 208	
Number of Credits/Units	4 units	
Contact Information	*Office location*	TBA
	Office hours	BY APPT (email me)
	Phone number	TBA
	Email address	Amber-Buntin@redwoods.edu
Textbook Information	*Title & Edition*	Algebra and Trigonometry
	Author	Sullivan
	ISBN	7th Ed: 0131430734 OR 8th Ed: 0132329034

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; matrices; sequences and series; mathematical induction; binomial expansion theorem; and complex numbers. Note: Graphing calculator required, TI-83 or 84 recommended. *Prerequisite: Math 120 with a grade of "C" or better (or equivalent), or appropriate score on the math placement exam.*

Student Learning Outcomes

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 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
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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.

Math 30 ~ College Algebra

Mon-Thurs – 9:00am - 10:35am – SC 208 (Course number 041559)

Instructor Contact Info

Amber Buntin, Department of Mathematics

Phone: *TBA* **Email:** *amber-buntin@redwoods.edu*

Canvas message is the preferred way to contact me!

Office hours: BY APPOINTMENT (message me)

Math Lab Open Hours: Mon-Thurs 8:30-2:50pm

You must be signed up to utilize the math lab!

Course Description

As stated in CR's catalog: 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. Note: Graphing calculator required, TI-83 or 84 recommended. *Prerequisite: Math 120 with a grade of "C" or better (or equivalent), or appropriate score on the math placement exam.*

Classroom Environment and Attendance

It is essential to our class that both the students and teacher behave in a manner that will provide a comfortable learning atmosphere. Be respectful to one another. You should not hesitate to ask questions nor feel embarrassed to ask for help.

Class time is valuable, and while sometimes we will work on in-class activities, I ask that you DO NOT complete homework during class. When working on assignments during lecture, students miss the current material, and often fall behind, so it will not be tolerated.

You are expected to arrive on time and to leave upon dismissal. Arriving late or leaving before class is dismissed is disruptive and disrespectful to your fellow students as well as your teacher. Please be prepared with your headphones put away and cell phones SILENCED. If you must miss a day, please check with a classmate to see what you missed and hand in assignments early.

Grades

Homework/Activities	**25%**
Quizzes	**10%**
Exams	**40%**
Final Exam	**25%**

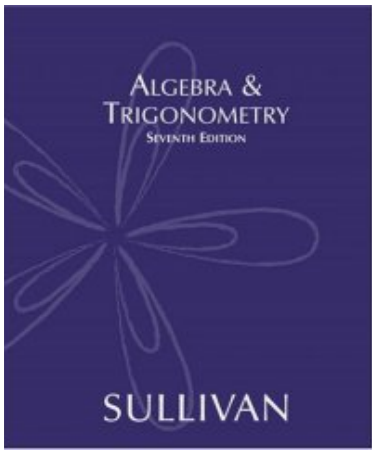
93-100%	A
90-92%	A-
88-89%	B+
83-87%	B
80-82%	B-
78-79%	C+
70-77%	C
0-69%	D-F

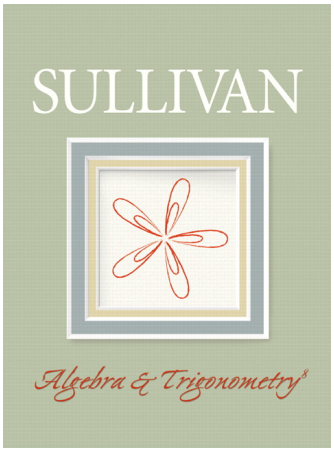
*** Final grade is at the professional discretion of the instructor ***

Required Materials

Textbook: *Algebra and Trigonometry*
Author: Sullivan, published by Prentice Hall

7th Edition ISBN #0131430734 **8th Edition ISBN #0132329034**





- I will be using the 7th edition in class and for homework assignments.
- The 8th edition will work, but problem/page numbers will vary.
- There are a LIMITED number of 7th edition textbooks available for check out for the semester at the library. Textbook is also available for 2-hour check out.
- Order your **textbook online for very cheap** on amazon etc. If you are going to order online, I suggest you do so ASAP since there's HW due right away.

Supplies: A graphing calculator is **required** (TI-83+ or TI-84 recommended) and available to rent for $15 per semester (see Betsy Buchanan in the ASC/Library), a graph paper composition notebook (used as reference book), pencils and erasers, a **binder and notebook paper to complete homework**, ruler or straightedge and graph paper. Access to a computer with internet capabilities is also a requirement.

Reference Book

You will be keeping a reference book that will contain important information you have learned throughout the semester such as definitions, formulas, and examples. This reference book is **not a book for you to write all of your notes in**. It is for you filter through your class notes and to re-write up the important information/tips/notes to yourself about important concepts. Some students already filter and write all of their in-class notes VERY nice and neat and I will accept this as your composition notebook, but you must get my approval. I will collect your reference book during exams and grade them as a homework assignment. I suggest doing a nice job on your reference book because you will be allowed to use the reference books on in-class quizzes throughout the semester (See **Reference Book Instructions** page for more info).

Homework

Homework problems will be assigned nearly each lecture period, and are handed in on the announced due date (typically two class periods later) at the beginning of class. We will have about 5-10 minutes reserved for howework questions each class. You are encouraged to work collaboratively on your homework but be sure to NOT just COPY.

Assignments are worth **10 points each**. Typically, **I will pick 4 problems to grade (2 points per problem) and 2 points are reserved for neatness and completeness.** It will benefit you to check (NOT COPY) the answers to the odd numbered problems in the back of the book.

At the end of the semester, your **two** lowest homework scores will be dropped from your grade. On top of this, I will accept **ONLY 3 late HW assignments over the semester.** Please write "1st late assignment" at the top of the late assignment. Late work is due BEFORE each exam. It is your responsibility to ensure that you get your HW turned in; if you know you will be missing class, you should turn your HW in **before** the due date, send it with a friend to class, or hand it in to the dropbox on the second floor of the Science Building across from the copier **before** classtime on the due date.

I recommend being organized and keeping all "scratch work," and returned work in a binder. You are expected to use proper mathematical notation as learned in class. All HW should be neat, legible and well organized. Messy papers will get point deductions and may even be returned ungraded. (See "Homework Guidelines" handout).

Quizzes

There will be an in-class OR take-home quiz each week there is not an exam. For in-class quizzes, a quiz will be available online for a week via Optimath. On Thursday, the closing day of the online quizzes, a paper version will be given at the beginning of class. I will take the larger of either your in class quiz score OR the average of your in class quiz score with your Optimath quiz score. You may repeat each quiz **online** as many times as you want before the due date and I will record your **highest score**. The quizzes will usually include material we had covered within a few class meetings.

I encourage you to do the weekly quizzes online until you receive at least a 7/10 on the quiz (but shoot for 10/10). The Optimath system also allows you to review the solution to each quiz once completed so you can figure out exactly where you went wrong. Each time you repeat the quiz you will be presented with new questions. Optimath can be found at http://msenux2.redwoods.edu/optimath. Each quiz is worth 10 points and the number of questions will vary depending on the difficulty of the material.

Canvas

Our course canvas page will be updated regularly and will contain a variety of items such as: course announcements, class documents, assignments, grades and much more! Be sure to turn on your notifications if you'd like to be notified about things like new announcements, changes to assignment due dates etc. You will be expected to check canvas daily and be aware of announcements made.

Link to Canvas: https://redwoods.instructure.com/

Exams and the Final

There will be three in class exams (40% of your grade) throughout the semester and a **required** 2-hour comprehensive final examination (25% of grade) at the end of the semester. Every student is REQUIRED to take a cumulative final exam in order to pass the course. I will notify the class **at least one week** in advance as to the date of each in class exam. Before each exam, you will receive a study guide or practice problems. I will schedule a study session before each exam (either outside or inside of class).

All exams need to be taken in class ON THE DAY OF THE EXAM unless you have made prior arrangements with me. Be sure to make all travel plans accordingly as there will be no make-ups for missed exams except in extreme or emergency cases (must provide documentation). If you take exams in the testing center, you need to make sure you make an appointment in advance so that you take the final exam at the designated time.

*****Final Exam Date: Thursday July 28th, 2016*****

Accommodations

If you have a documented disability or believe you can benefit from any of the services offered by Disabled Student Programs & Services (DSPS), please contact the DSPS office at 476-4280 (phone), 476-4418 (fax), TTY 476-4284 or view their webpage: http://www.redwoods.edu/dsps

Tutoring

- **The Math Lab.** I encourage you to enroll in MATH 30L, for .5 unit (22.5 hours ~ 1.5 hrs a week req) or for 1 unit (45 hours ~ 3 hrs a week req) of credit and in order to obtain supplementary help. This is the cheapest for-credit tutoring option available on campus and I can't stress the value enough. Math lab is located in the ASC in the back of the Library.

- **MATH 252** Open Mathematics Lab (Non Credit) This is a free, no credit option to get math tutoring help. **If you do not need units** or want math help but cannot fulfill the hour requirements for mathlab, then this is the option for you!

- **OPTIMATH** practice assignments give immediate feedback and written out solutions: http://msenux2.redwoods.edu/cgi-bin/online/f15/OTcreatepracticequiz.cgi?course=math30

- The **CR Math Jam** webpage is a great way to prepare for exams and contains lessons as well as OPTIMATH assignments: http://mathrev.redwoods.edu/mathjam/?s=public

Academic Honesty

Cheating is not accepted. If you are cheating, you will receive a grade of F in the course. Any violation of academic misconduct will be dealt with according to the procedures and sanctions proscribed by the College of the Redwoods.

Faculty Withdrawal of Students

It is the policy of the College of the Redwoods Math Department to exercise a "Faculty Withdrawal" for any student who has missed more than 15% of the class meeting time (prior to the drop deadline), due to the severely diminished likelihood of a successful outcome in the course. It is important to note that, if it is the student's intention to withdraw from the course, the responsibility remains with the student to ensure the proper paperwork has been filed – that is, students are not to assume the teacher will file the "Withdrawal" automatically.

How to Succeed in this Course

- ✓ Read your text. It is best if you read the section of the text ahead of the scheduled lecture date on that topic.
- ✓ Be in class on time every day.
- ✓ Do your homework! Plan to spend at least 1-2 hours outside of class for every hour inside of class. That is the minimum investment of time for success in this course.
- ✓ Work with classmates. Mathematics is a social subject (but not a spectator sport). Working with fellow students helps in your own understanding of the ideas of the course (as you explain and/or hear others explain key concepts and procedures).
- ✓ READ and KEEP your returned work. When you get work back, look for any remarks that I have made. Keep your work in a binder to keep a record of your scores. This is to make sure I correctly enter your grades.

Final words

A few words about my expectations for you and myself in this course: My responsibilities include coming to class prepared to teach you mathematics, giving clear lectures, assigning carefully chosen homework problems that are relevant to our course and carefully preparing exam questions that accurately measure your progress in the course. Additionally, I am responsible to be available to you outside of class for consultation in office hours (by appointment…just email me ☺).

Likewise, I believe that you are ultimately responsible for your college education and I expect you to come to class motivated to learn the material. This involves keeping up with homework assignments, seeking additional help, either from me or from the many resources available to you here on campus, before it is too late.

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********** Syllabus Subject to Change **********
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Announcements will be made in class. If you are absent, it is your responsibility to check your email AND with your fellow classmates!

Guidelines for Writing Homework

Please follow these guidelines when completing homework assignments.
It makes my grading experience much more pleasant ☺

1. Complete all homework assignments on a **separate sheet of paper.** You **may use both sides** of the paper. Do NOT complete assignments on the pages of your textbook.
2. **Staple** all homework in the upper left hand corner.
3. **Label** your homework with your name, course number, and section number in the upper right-hand corner (see example below).
4. Write your problems in order **DOWN** the page. Please **skip a line** between problems.
5. **Circle**, **box,** or **highlight** your answers to each exercise so I can find your answer quickly.
6. Please use **pencil** when writing your homework, and please write legibly and neatly. Presentation is a component of your homework score. NO PENS!
7. Be sure to **show your work** when solving a problem. A problem with just the answer and no work shown will receive NO CREDIT.
8. **Cut or tear off** any frilly edges on paper torn from a notebook.
9. When creating a graph, you **MUST USE GRAPH PAPER AND A RULER** or you will get a ZERO on the assignment.
10. If you are ever given two assignments due on the same day make sure complete them, and **staple them SEPARATELY**.

Staple in upper left corner.

Ima Student
Math 30
1.2

HW 1.2: 4, 11, 20, 41

4. Solve $-26x + 84 = 48$

$$-26x + 84 = 48$$
$$-26x = 36$$
$$\boxed{x = \frac{36}{26}}$$

11. Solve $19x + 35 = 10$

$$19x + 35 = 10$$
$$19x = -25$$
$$\boxed{x = -\frac{25}{19}}$$

20. Solve $-8 - 8(x - 3) = 5(x + 9) + 7$

$$-8 - 8(x - 3) = 5(x + 9) + 7$$
$$-8 - 8x + 24 = 5x + 45 + 7$$
$$-8x + 16 = 5x + 52$$
$$-13x = 36$$
$$\boxed{x = -\frac{36}{13}}$$

41. Solve $Ax + By = C$ for y

$$Ax + By = C$$
$$By = C - Ax$$
$$\boxed{y = \frac{C - Ax}{B}}$$

Reference Book Guidelines
Math 30

Your reference/composition notebook has many useful purposes:

- It helps you **study for exams** by *re-writing* in-class notes and determining what information is important to YOU.
- **It improves overall organization** of notes.
- **You can use your book on quizzes** provided you turn it in to be graded for BOTH in-class exams and keep it up to date.
- You can use it to help study in your **future math courses**!

Requirements:

- You should purchase a **composition notebook**...graph paper is best, but a lined one will do just fine. You can also use a regular spiral bound notebook.
- This book should be **SEPARATE from your in-class notebook** (unless otherwise approved)**.**
- **Write your name and CONTACT INFO inside of front cover**. In case you lose your book, you should have your name and an email address or phone number or address.
- **Skip at least 3** pages in the beginning of your book for a **Table of Contents** (more if you write big). You should include description of the material you have written on a page, and page number (see the table of contents of your textbook or any book).
- **Number your pages** in the top right, or lower left.
- **Summarize concepts** you have learned using your own words. Make notes to yourself about strategies used, proper notation and your common mistakes.
- You must **write "a little something" from EACH section**. Even if you "know it already." At the end of the semester, come the last exam, things that you know in the beginning of the semester, you may no longer have memorized.
- Your reference book will be **collected DURING Exams** and graded as a written homework. It will be worth **10 points each time it is graded**.

Helpful Hints:

- **Do a little bit at a time.** Do not try to cram everything in there the night before a quiz. Have your book out when you are doing homework and maybe jot down a particularly challenging example you encounter. In class, sometimes I will say "you might want to put this in your comp book." Put a star by that info and copy it into book **right after** of class so you remember.
- **Use colors!** Maybe write/highlight definitions in green, examples in purple, important things to remember in red...and so on. Be creative!
- **Don't write/highlight too much** as it will be difficult to find what you're looking for during the Final Exam.
- **Make it YOURS!** Use colors, doodle in it, make it pretty but try to keep it neat :)