# Syllabus for Math 30/30S ~ College Algebra with Support

## Course Information

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|---|---|
| Semester & Year: | Spring 2020 |
| Course ID & Section #: | Linked Courses:<br>**Math 30** – E7547 – College Algebra<br>**Math 30S** – E7548 – Support for College Algebra |
| Instructor's name: | Amber Buntin |
| Day/Time or *Online: | **Math 30** – Tues/Thurs/Fri 1:15-2:30pm<br>**Math 30S** – Tues/Thurs/Fri 2:40-3:45pm |
| Location or *Online | SC 204 |
| Number of units: | 5 Units Total – 7 hours per week<br>**Math 30** – 4 Units (Lecture → 4 Hours per week)<br>**Math 30S** – 1 Unit (Lab→ 3 Hours per week) |

## Instructor Contact Information

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|---|---|
| Office location or *Online: | SC 216K |
| Office hours: | Mon/Wed 1-2pm, Tues/Thurs 10-11am, and by appointment |
| Phone number: | 707-476-4207 |
| Email address: | Amber-Buntin@redwoods.edu |

## Required Materials

| | |
|---|---|
| Textbook title: | Algebra and Trigonometry |
| Edition: | 7th Edition (avail to checkout for semester from library) |
| Author: | Sullivan |
| ISBN: | 0131430734 |
| Other requirements: | TI 83/84 graphing calculator recommended. |

## Catalog Description

**Math 30 Course Description:**

A course for students studying in science, technology, engineering, and mathematics (STEM) fields and some areas of business. Both Math 30 and Math 25 (Trigonometry), are prerequisites for Math 50A (Differential Calculus).

Topics include: polynomial, rational, radical, exponential, absolute value, and logarithmic functions; systems of equations; theory of polynomial equations; analytic geometry; arithmetic and geometric sequences and series.

**Math 30S Course Description:**

A support course for MATH-30 College Algebra. Through contextualized examples, collaborative practice, and hands-on activities, students learn skills and explore concepts crucial for success in MATH-30 College Algebra. **Note:** This course is intended for students concurrently enrolled in Math 30, "College Algebra."

## Course Student Learning Outcomes

**Math 30 Outcomes:**

1. Analyze and investigate functions and equations graphically, algebraically, and verbally.
2. Solve equations, systems of equations, and inequalities.
3. Apply functions and other algebraic techniques to model real-world applications.

**Math 30S Outcomes:**

1. Apply algebraic techniques to simplify expressions and solve equations and inequalities.
2. Create, interpret, and identify the graph of a function, including all salient features.
3. Implement effective learning strategies.

## Evaluation & Grading Policy

Please see weighted grade policy in syllabus below.

## Prerequisites/Co-requisites/Recommended Preparation

Students must be concurrently enrolled in MATH-30 College Algebra, Section E7547 and MATH-30S Support for College Algebra, Section E7548. You will experience this course as one class and will be unaware when MATH-30 stops and MATH-30S begins on any given day. **Consequently, if you drop or are dropped from either course, you will be dropped from both courses.**

## Changing Preferred Name in Canvas

Students can have an alternate first name and pronouns to appear in Canvas. Fill out the Student Information Update form and turn in to Admissions & Records. Your Preferred Name will only be listed in Canvas. It does not change your legal name in our records.

## Special Accommodations Statement

College of the Redwoods complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. If you are already approved for accommodations through Disabled Services & Programs for Students (DSPS) then **during the first or second week of class** you will need to submit your paperwork to me, arrange to take exams in the testing center, and make sure that you take Exams at the same time our class meets. 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 accommodations, please see me or contact Disability Services and Programs for Students. Students may make requests for alternative media by contacting DSPS based on their campus location:

- Eureka: 707-476-4280, student services building, 1st floor
- Del Norte: 707-465-2324, main building near library
- Klamath-Trinity: 530-625-4821 Ext 103

## Emergency Procedures/Everbridge

College of the Redwoods has implemented an emergency alert system called Everbridge. In the event of an emergency on campus you will receive an alert through your personal email and/or phones. Registration is not necessary to receive emergency alerts.

- Check to make sure your contact information is up-to-date by logging into WebAdvisor https://webadvisor.redwoods.edu and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'
- Please contact Public Safety at 707-476-4112 or security@redwoods.edu if you have any questions. For more information see the Redwoods Public Safety Page.

# Math 30/30S ~ College Algebra with Support

Tues/Thur/Fri – 1:15~3:45pm (10 min break) – SC 204 (Course numbers 047547/047548)

## Instructor Contact Info

Amber Buntin, Professor of Mathematics

**Email:** *amber-buntin@redwoods.edu* **Canvas message** is the preferred way to contact me!

**Phone:** *707-476-4207*

**Office hours (SC 216K):** Mon/Wed 1-2pm, Tues/Thurs 10-11am, and by appointment

**Math Lab Hours (Located in the back of ASC):** The drop-in Math Lab is typically open Mon-Thurs 10-5pm and Friday 10-3pm during the regular Fall/Spring semester. **Link to check open hours during any given semester: https://www.redwoods.edu/math/Lab**

***Note: You must be **signed up** for Math 252 (FREE non-credit) or Math 52 (Credit) to utilize the math lab. In the Math Lab there are little red flags on the tables that you raise when you have a question.

## Classroom Environment, Participation, 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. You are expected to be courteous to each other and to the instructor. You should not hesitate to ask questions nor feel embarrassed to ask for help. You will be asked to leave the class for display of behavior the instructor deems as disruptive to the learning environment.

Attendance and participation are essential to the learning process. An important aspect of this course is the incorporation of active learning in class and **much of the work we do in the lab component of this course will be in groups.** You are expected to work actively with your peers, sharing and presenting, taking and giving, listening and explaining, questioning and answering.

The best way to insure having a successful experience in any course is to come to every class meeting and keep up with the assignments. I realize that things come up and getting to class is impossible at times. In those cases, just communicate with me as soon as you possibly can and be sure to make up work that you missed, including your part of any group assignments. This is especially important in our group-activity-based course.

ALL students remain responsible for ALL assignments given and those assignments are expected to be turned in ON TIME. **If you miss a class, the assumption is that you will get the necessary information to complete the assignment by the due date and be prepared to continue in the normal flow of the course.**

## Tips for Success!

- ✓ Cultivate a positive attitude; Make friends and work productively together in groups.
- ✓ Come to class! – Attend class every time on-time and stay the whole time.
- ✓ Read the new material BEFORE it is presented in class.
- ✓ Take responsibility for your own learning.
- ✓ Ask questions – lots of questions – to yourself, to classmates, to tutors and to the instructor.

## Lecture (Math 30) – Grades

The lecture component of this course will be graded based upon the following weights in the categories listed below.

| | |
|---|---|
| **Homework and Activities ….15%** | 93-100%.....A |
| **Quizzes…….....….....15%** | 90-92%.....A- |
| **Exams ……..….....45%** | 88-89%.....B+ |
| **Final Exam…….....25%** | 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 ***

## Lab (Math 30S) ~ Grades

**The lab is a "Pass/No Pass" course**; there is **no** option for a letter grade.

In order to receive a grade of "PASS" Math 30S students must:

- participate in individual and group lab-activities and written assignments.
- complete at least 70% of the in-class activities satisfactorily (earn ✓+ or ✓).

## Canvas

Our course canvas page will be updated regularly and will contain a variety of items such as: course announcements, class documents, assignments, review resources 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. If you find you are getting too many (or too few) announcements, remember this is an individual setting that you must modify in Canvas. I can help to adjust your settings…just ask!

**You will be expected to check canvas regularly and be aware of announcements made.**

Log into Canvas at https://redwoods.instructure.com
Password is your 8 digit birth date
For tech help, email its@redwoods.edu or call 707-476-4160
Canvas Help for students: https://www.redwoods.edu/online/Help-Student
Canvas online orientation workshop: https://www.redwoods.edu/online/Home/Student-Resources/Canvas-Resources

## Faculty Withdrawal of Students

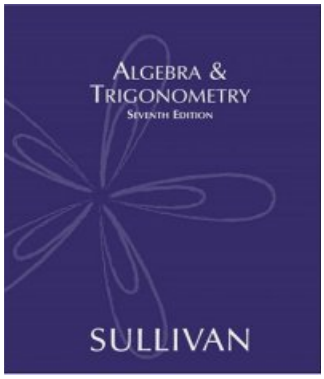
It is the policy of the College of the Redwoods Department of Mathematics to exercise a "Faculty Withdrawal" for any student who has missed more than 15% of the class meeting time (~8 days) due to the severely diminished likelihood of a successful course outcome. Missing 2 or more classes in the first two weeks of school may result in withdrawal as well. It is important to note that, if it is your intention to withdraw from the course, you are responsible to ensure the proper paperwork has been filed – that is, you should not assume the teacher will file the "Withdrawal" automatically.

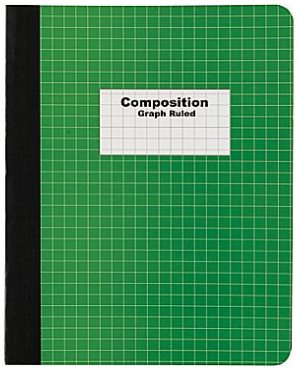
## Required Materials

**Textbook:** *Algebra and Trigonometry*

**Author:** Sullivan, published by Prentice Hall

**7th Edition ISBN #0131430734**







- There are a LIMITED number of 7th edition textbooks available for check out for the semester at the library. There are also books on 2-hour reserve at the library.
- 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:

- ✓ Lined paper and graph paper
- ✓ Pencil, erasers, and straight edge
- ✓ Composition notebook OR binder (used specifically as a reference book)
- ✓ A graphing calculator is **required** (TI-83+ or TI-84 recommended) and available to rent for $15 per semester (see Emily Chang in the back of the Library in the Math Lab). https://www.redwoods.edu/math/Mathematics-Home/Resources/Calculator-Rentals
- ✓ Access to a computer with internet and printing capabilities is also a requirement as there will be assignments submitted online.
- ✓ Binder/folder for returned work
- ✓ Download DESMOS Graph APP (not for use on exams): https://www.desmos.com/

## Math 30S - Lab Activities

In-class lab assignments will be described in class. Some assignments will be due at the end of the class period in which they are assigned; some will have parts to work on through the week and will be due at the end of our last day of lab that week. Some will be individual assignments; some will be small-group work where each person must turn in their own work; some will be small-group work with the entire group responsible for one complete submission. Some assignments will be math problem sets; some will be writing assignments.

**Each lab will receive one of the following scores:**

✓+ "Perfect"

✓ "Complete, corrections noted within, but no resubmission is needed"

X "Incomplete, corrections noted within and resubmission is needed for credit"

The ✓ indicates that there is something that needs your attention. The X means that either you didn't complete the assignment, or that major corrections need to be made. **You can resubmit any lab with an X to receive a better grade.**

# Math 30 ~ Homework and Activities

Activities, online homework and written homework will be assigned throughout the semester. Homework will be assigned and due nearly every class period. You are encouraged to work collaboratively on your homework but be sure to NOT COPY other students' work. We will have about 5~10 minutes for homework questions each class. At the end of the semester, the **2** lowest homework scores will be dropped from your grade.

## Online Homework:

Online homework will be assigned daily and completed in a FREE online testing site called MyOpenMath (MOM). **The online assignments will provide for the following incentives:**

- Integrated in Canvas for instant feedback/grading.
- Ability to submit answers multiple times to improve score.
- Infinite set of practice problems/solutions for studying.

****Late work policy:** 5 Late Passes will be allowed for **online assignments only.** Late passes can be used at any point during the semester and extend the due date by 7 days.

## Written Homework:

Written homework will be due nearly every class period.
**Grading Rubric for HW:** Written assignments will be graded mainly on neatness, proper notation, and completeness and deductions will occur if I notice multiple incorrect answers or errors or incomplete assignments. **Please see "Written Homework Guidelines" section for further details about expectations.**

- For ***most*** online MOM assignments, I will select a few problems for you to **write up solutions for** and hand in at the beginning of class on the due date.
- Written work will typically include material covered in recent homework/notes/activities.
- In addition to written solutions to online HW, problems may be assigned from the textbook. Check answers to ODD numbered problems in the back of the textbook and to help with even~numbered problems.
- **No late written work will be accepted.**

## Exam corrections:

- Assigned after each exam is returned (if time allows)
- Graded as an activity and **do not improve actual exam score**.

## Activities:

- We will have activities in and outside of class time. Activities that are completed in class cannot be made up if missed. For many activities you will be working in pairs or groups and therefore it is important you come to class everyday!

## Handing in work early and the Math dropbox

It is your responsibility to ensure that you get your work turned in on time; if you know you will be missing class, you should submit/turn in work **before the due date, send it with a friend to class, or hand it in to the Mathematics dropbox** in the hallway of the 2nd floor of the Science Building **before** class time on the due date. **If you use this option, be sure to put MY NAME on it at the top and email me to let me know you dropped the homework.**

## Quizzes

There will be frequent in-class and take-home quizzes (at least one per week). In-class quizzes will be announced **at least one class period in advance.** For take-home quizzes, you may use your composition notebook, notes and textbook. You **MAY NOT** work with other students in class or get help at the math lab, the LIGHT center or from a tutor. All work shown on quizzes should be your own and should follow the HW guidelines. **If I suspect students work together on an in-class or take-home quiz, both parties will receive a score of zero and may be reported to the dean of students for further consequence.**

## Exams and the Final

There will be 2-3 in-class exams (45% of grade) throughout the semester and a **required** comprehensive final examination (25% of grade). 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 and/or practice problems. **I will schedule a study session before each exam.**

All exams need to be taken in class ON THE DAY OF THE EXAM unless you have made prior arrangements with me to take it **early**. 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 LIGHT center, you need to make sure you make an appointment in advance so that you can take exams at the designated class time. **Exams will be graded within 2 weeks of all members of class completing the exam.**

*****Final Date: Thursday May 14th, 1:00-3:00pm*****

## 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 lessons, assigning carefully chosen activities that are relevant to our course and carefully preparing questions that help deepen your understanding. 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 prepared, alert and motivated to learn the material. This involves keeping up with assignments, seeking additional help, either from me or from the many resources available to you here on campus, before it is too late.

# Tutoring Options – Improve Course Success!

## The Math Tutoring Lab:

The math lab is located in the ASC in back of the Library. **Sign up in webadvisor for one of the courses below & show up first week of class to fill out paperwork.** You can register for math lab mid semester, but if you register for Math 52, make sure you can fulfill the hour requirement.

Course options:

- **MATH 252** Open Mathematics Lab. This is a FREE, no credit option to get drop-in math tutoring in the math lab. **If you do not need units** or you want math help but cannot fulfill hour requirements for mathlab, then this is the option for you!
- **MATH 52** Math Lab for Transfer Level Math. Register in webadvisor for this for-credit drop-in tutoring course held in the math lab. Available for .5 unit (22.5 hours ~ 1.5 hrs a week req) or for 1 unit of credit (45 hours ~ 3 hrs a week req).

## Other Tutoring Options:

- **FREE ASC tutoring** by appointment. Call **707-476-4106 or 707-476-4154.**
- **EOPS Tutors.** You must be part of EOPS (Extended Opportunity Programs and Services) to receive this tutoring. Please contact your EOPS couselor to set up tutoring. If you are unsure if you are eligible for EOPS, call them at **707-476-4270** check out their webpage: https://www.redwoods.edu/eops
- **LIGHT Center Tutoring.** Please contact the LIGHT center if you are interested in their tutoring services. There is a GUID course you must enroll in to receive services. **Phone:** 707-476-4290 **Webpage:** https://www.redwoods.edu/dsps/Light-Center
- **OPTIMATH** practice assignments give immediate feedback and written out solutions: http://msenux2.redwoods.edu/cgi-bin/online/s18/OTportal.cgi
- The **CR Math Jam** webpage is a great way to prepare for exams and contains lessons as well as OPTIMATH assignments: http://msenux2.redwoods.edu/mathjam/?s=public
- **Private tutoring** is always an option but is of course more costly. If you are interested in hiring a private tutor, let me know and I will ask around to see if I can find anyone!

## Mathjam Math Review Courses:

These face-to-face review courses can help to review topics in Prealgebra through Intermediate Algebra. Search for the following courses in Webadvisor to register.

**Concurrent Course Dates/Time: Mon/Wed, 2/3/2020-3/11/2020, 2:50-4:10pm**

- MATH 301 – Prealgebra Review – E7536
- MATH 302 – Elementary Algebra Review – E7543
- **MATH 303 – Intermediate Algebra Review – E7546**

********** **Syllabus Subject to Change** **********

**Announcements will be made in class and often followed up in Canvas. When absent, students are expected to check email, Canvas, and/or with fellow classmates concerning missed work!**

## Guidelines for Written Homework

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

1. Complete all written 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. **Copy down original problem and directions** (summarize word problems)!
5. Write your problems in order **DOWN** the page. Please **skip a line** between problems.
6. **Circle**, **box,** or **highlight** your answers to each exercise so I can find your answer quickly.
7. Please use **pencil** when writing your homework, and please write legibly and neatly. Presentation is a component of your homework score. NO PENS!
8. Be sure to **show your work** when solving a problem. A problem with just the answer and no work shown will receive NO CREDIT.
9. **Cut or tear off** any frilly edges on paper torn from a notebook.
10. When creating a graph, you **MUST USE GRAPH PAPER AND A RULER** or you will get a ZERO on the assignment.
11. 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 30/30S
Section 1.2

HW 1.2: 4, 11, 20, 41

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

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

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 $y$

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