Syllabus for Math 5 – Contemporary Mathematics – Eureka Campus

Semester & Year	Spring 2019	
Course ID and Section #	Math 5 ~ Section E6920	
Instructor's Name	Amber Buntin	
Day/Time	Tues/Thurs 8:30-9:55am	
Location	SC 202	
Number of Credits/Units	3 units	
Contact Information	*Office location*	SC 216K
	Office hours	Mon-Thurs 10-11am, & by appointment (email me ☺)
	Phone number	707-476-4207
	Email address	Amber-Buntin@redwoods.edu Include "**Math 5**" in the email subject line
Textbook Information	*Title & Edition*	Math in Society Available FREE online: http://www.opentextbookstore.com/mathinsociety/ Available in print: Amazon, or Lulu
	Author	*David Lippman*
	ISBN	978-1479276530 (13); 1479276537 (10)

Course Description

An approved CR and CSU General Education math course for liberal arts students that provides social and historical context from the arts and sciences. Topics are chosen by the instructor and can include geometry, fractals, counting and probability, linear and exponential models, finance, statistics, voting methods and other contemporary topics of interest. **Prerequisite:** None.
Note: Graphing calculator required, TI-83 or 84 recommended.

Student Learning Outcomes

1. Identifying the contributions of mathematicians throughout history and describe how those contributions affect mathematical thinking.
2. Evaluate the validity of a math based argument.
3. Relate mathematics to society by modeling real-world problems in fields such as social science, business, finance, art and science.

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: http://www.redwoods.edu/board/Board-Policies/Chapter-5-Student-Services, and scroll to AP 5500. 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: http://www.redwoods.edu/board/Board-Policies/Chapter-5-Student-Services and scroll to AP 5500.
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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/aboutcr/Eureka-Map; choose the evacuation map option). For more information on Public Safety, go to http://www.redwoods.edu/publicsafety. 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 5 ~ Contemporary Mathematics

Tues/Thurs – 8:30-9:55am – SC 202 (Course number 046920)

Instructor Contact Info

Amber Buntin, Assistant Professor, Department 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-Thurs 10-11am, and available by appointment!

Math Lab Open Hours: M/W 9am-6pm, **T/Th** 10am-6pm, **Fri** 10am-3pm

Notes: **The Math Lab is located in the back of Library (there are little red flags on the tables).** You must be **signed up** to utilize the math lab (there is a FREE option Math 252)

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 lecture to avoid falling behind on the current material.

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 classmates as well as your teacher. Please be prepared with your headphones put away and cell phones SILENCED. If you have a job where you must have a radio/walkie (such as an emergency responder), or your phone on, please let me know right away!

If you must miss a day, please **check with a classmate and/or Canvas** to see what you missed. **Also, hand assignments in early so they are not considered late!**

Grades

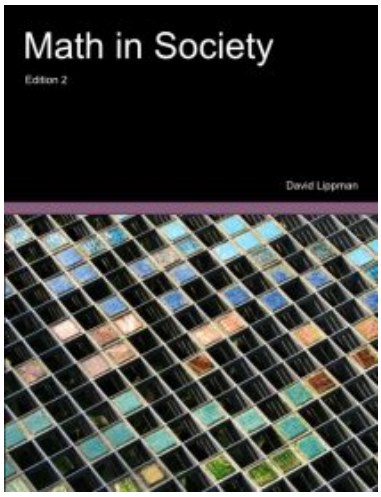
Homework (online and written)..... 20%
Activities..... 25%
Exams..... 30%
Final Research Project/Presentation.... 25%

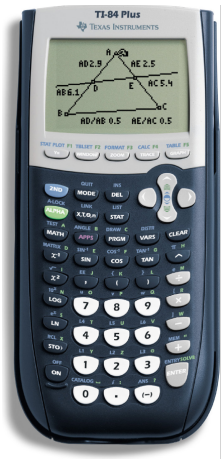
93-100%.....A
90-92%.....A-
88-89%.....B+
83-87%.....B
80-82%.....B-
78-79%.....C+
70-77%.....C
0-69%.....D-F

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

Required Materials

Textbook: *Math in Society (v2.5)*
Author: David Lippman





Textbook available via the following methods:

- FREE Online textbook is provided at: http://www.opentextbookstore.com/mathinsociety/
  It is recommended to SAVE a copy of the book on a computer/device for offline access
- If you prefer to read/highlight textbooks, then you can purchase a printed copy.
  OPTIONAL printed version of textbook: Amazon, or Lulu for ~$15 +tax & shipping.
- Check out textbook from Library for FREE for 2 hours or even 2 weeks at a time!

Required Supplies:

- Binder/folder for returned work.
- Lined paper and graph paper.
- Pencil, erasers, and straight edge.
- 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).
- Access to a computer with internet and printing capabilities is also a requirement as there will be assignments submitted online. Check out CIS 210!
- DESMOS Graphing APP (not for use on exams): https://www.desmos.com/

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.

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

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. At the end of the semester, your **2** lowest homework scores will be dropped from your grade. **Late work policy:** 3 Late Passes will be allowed for online assingments only.

Online Homework:

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

- Integrated in Canvas for instant feedback/grading.
- Ability to submit assignments multiple times to improve score.
- Infinite set of practice problems/solutions for studying.
- **Note:** Not all topics we cover are well suited for online HW. Written assignments will be used for these topics!
- I will set up individual/small group tutorials if needed to make sure students have ample support for MyOpenMath.

Written Homework:

Written homework will also be due throughout the semester.

Please see "Written Homework Guidelines" section for further details about expectations.

- Written work will include material covered in recent homework/notes/activities.
- If written work is assigned from textbook, be sure to check answers to ODD numbered problems in the back of the exercises section and to help with even-numbered problems.
- **Late passes CANNOT be used on written work.**

Activites:

- 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.**

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.

Exams

There will be 2 in-class exams (30% of grade) throughout the and 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 an optional study session before each exam typically outside of class.**

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). Exams will be graded within 2 weeks of all members of class completing the exam.

Final Research Project/Presentation

There will be a **required** final research project/presentation (25% of grade). This assignment will have two components including a research paper and a presentation. More details will follow including deadlines, grading rubric and specific project details.

*****Final Presentation Date: Tuesday, May 14th, 8:30-10:30am*****

Testing Accommodations

If you have a documented disability or believe you can benefit from any of the services offered by DSPS such as extended test taking time, tutoring services, quiet space for exams etc, please contact the DSPS office at 476-4280 (phone), 476-4418 (fax), TTY 476-4284 or view their webpage: http://www.redwoods.edu/dsps

If you are already approved for accomodations 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 and arrange to take exams in the testing center and make sure that you take Exams at the same time our class meets.

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.

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.** 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 5L** Math Lab for Contemporary Mathematics. 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
- 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
- OPTIMATH practice assignements give immediate feedback and written out solutions: http://msenux.redwoods.edu/cgi-bin/online/s13/OTcreatepracticequiz.cgi?course=math5
- **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!

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.

********** **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 5
Topic/Section

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

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