Syllabus for Contemporary Mathematics – Eureka Campus		
Semester & Year	Fall, 2018	
Course ID and Section #	E6787	
Instructor's Name	Garrett "Todd" Olsen	
Day/Time	MW, 1:15pm – 2:40pm	
Location	SC210	
Number of Credits/Units	3	
Contact Information	*Office location*	CA 128
	Office hours	By Appointment
	Phone number	707-476-4229
	Email address	Todd-Olsen@redwoods.edu
Textbook Information	*Title & Edition*	Math in Society
	Author	David Lippman
	ISBN	This is an open source textbook available online.

Course Description

An approved CR and CSU General Education course designed primarily for non-science majors. This course is a study of selected topics from contemporary mathematics. Typical topics, which are chosen by the instructor, will be from areas including: inductive and deductive reasoning, mathematical modeling and analysis of linear and exponential functions, geometric symmetries, geometry of fractals, sequences and series, dynamics of population growth, statistics, mathematics of finance and management science, mathematics of methods of voting, fair division, and problem-solving techniques.

Student Learning Outcomes

1. Accurately communicate mathematical ideas using correct mathematical notation, graphs, and vocabulary.

2. Use of the graphing calculator or other technology to explore mathematical concepts and also to verify their quantitative conclusions.

3. Solve problems and applications demonstrating the skills required for college-level mathematics.

4. Examine the quantitative arguments on both sides of issues currently in the news.

5. Explain the concepts of mathematics of social choice, statistics, growth, symmetry, finance, and/or management science and use the concepts to solve problems in these fields.

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. 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.

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.

Grade Categories and Weights

Homework	25%
Activities	30%
Quizzes	25%
Final Project	20%

Homework: To earn a unit of transfer level credit requires one hour of in class participation and two hours of homework (see college catalog page 18, "Unit Defined"). In this class there will be several different types of homework. For some assignments you will be asked to do some reading and participate in a discussion. Other assignments will require calculation, graphing, and analysis leading to a written document.

Activities: Deep learning as a process is multidimensional. Part of this process involves solitary contemplation and practice and part involves interaction and discussion with people. A big part of this course involves groupwork. Coming to class and being present in class intellectually is critical for your learning experience and therefore should be part of the grading paradigm. Activities must be done in class on the day they are assigned.

Quizzes: Quizzes are solo experiences. These assignments provide you with an opportunity to demonstrate what you have been learning and also give me an opportunity to see who well you are learning the concepts from the course.

Final Project: You can think of the final project as the capstone of the course. The final project is in two parts, an essay and a presentation. You will have a great deal of flexibility in choosing a topic for your final project. It could be about a famous mathematician. I could also be about a mathematical concept or paradox. The main stipulation is that this project tie back to mathematics in some clearly articulated way.

Course Materials

Calculator: Texas Instruments 83/84 graphing calculator.

Computer: You will be asked to do research online, watch videos, and write papers. While I do understand that tablets and phones are essentially minicomputers, you will need access to a reasonably current desktop or laptop type computer.

Drawing tools: Strait edge, pencils, compass.

Textbook: The textbook for this course is titled *Math in Society* and is available free online.

Contesting a Grade
Students have one week from the time an assignment has been graded to contest the grade with me. If for any reason you are not sure why you earned the grade you received, or if you unclear on the grading policies, please contact me. **It is your responsibility to keep a copy of everything I return**.

Incomplete Grade
As a general rule, I do not give incomplete grades. This does not mean, however, that I will not consider such a grade. Only with *extreme extenuating* circumstances happening at the very end of the semester will I consider an incomplete grade. College of the Redwoods has strict guidelines with regard to a grade of incomplete (see page 20 of the catalog). Incompletes are not an option to repair a low grade earned throughout the semester. A student must have already demonstrated significant and successful course progression beyond the last date to drop the course to be considered for an incomplete.

Class Rules

Be respectful to your classmates and help provide a healthy environment for learning. Be polite in your interactions, timely in your responses. I expressly prohibit aggression, harassment, bullying, etc., and treat such as a violation of the Student Code of Conduct.