Syllabus for Introduction to Statistics – Eureka Campus				
Semester & Year	Spring, 2018			
Course ID and Section #	Math-15-E3411			
Instructor's Name	G. Todd Olsen			
Day/Time	MWF 10:05am-11:20pm			
Location	SC 214			
Number of Credits/Units	4			
Contact Information	Office location	CA128		
	Office hours	By Appointment		
	Phone number	707-476-4229		
	Email address	todd-olsen@redwoods.edu		
Textbook Information	Title & Edition	Interactive Statistics, 3rd ed.		
	Author	Martha Aliaga and Brenda Gunderson.		
	ISBN	<mark>0-13-149756-1</mark>		

Course Description

The study of statistical methods as applied to descriptive statistics and inferential statistics. An emphasis on the meaning and use of statistical significance will be central to the course. Students will use probability techniques to make decisions via hypothesis testing and will estimate parameters using confidence intervals. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. The course includes applications using data from disciplines including business, social sciences, psychology, life science, health science, and education.

Student Learning Outcomes

- 1. Accurately communicate statistical ideas using correct statistical notation, graphs, and vocabulary.
- 2. Use descriptive and inferential statistics to solve real-world problems.
- 3. Demonstrate appropriate use of technology in making decisions based upon real-world data.
- 4. Read and interpret information that contains statistical analysis and be able to communicate these results.
- 5. Judge the validity of research reported in the mass media and peer reviewed journals.

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 <u>Disabled Students Programs and Services</u>. Students may make requests for alternative media by contacting DSPS at 707-476-4280.

Academic Support

Academic support is available at <u>Counseling and Advising</u> and includes academic advising and educational planning, <u>Academic Support Center</u> for tutoring and proctored tests, and <u>Extended</u> <u>Opportunity Programs & Services</u>, 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/AP5500StudentConductCodeandDisciplinaryProcedure srev1.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/AP5500StudentConductCodeandDisciplinaryProcedure srev1.pdf

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Emergency Procedures for the <u>Eureka</u> 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:

(<u>http://www.redwoods.edu/Eureka/campus-maps/EurekaMap_emergency.pdf</u>). For more information on Public Safety, go to <u>http://redwoods.edu/safety/</u> 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

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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.

Elementary Statistics

Math 15			Spring, 2018
Instructor:	Garrett "Todd" Olsen		
Office Hours:	Email me for an appointment	t	
Office: CA128	Phone: 476-4229	Email:	Todd-Olsen@redwoods.edu

Textbook: <u>Interactive Statistics</u>, 3rd ed., Martha Aliaga and Brenda Gunderson. **Required Reading**: *Naked Statistics*, Charles Wheelan.

Course Goals: (1) Accurately communicate statistical ideas using correct statistical notation, graphs, and vocabulary. (2) Use descriptive and inferential statistics to solve real-world problems. (3) Demonstrate appropriate use of technology in making decisions based upon real-world data. (4) Demonstrate the characteristics of an effective learner and critical thinker, such as note-taking, critical reading, communication through writing, verbal discussions, the ability to work as part of a group, etc. (5) Read and interpret information that contains statistical analysis and be able to communicate these results. (6) Judge the validity of research reported in the mass media and peer reviewed journals.

Calculators: You are required to have a calculator with a statistical package. Currently the Texas Instruments TI-83/84 is the best statistical calculator available and the one you must have for this course.

Grading:	Homework	15%
	Participation	10%
	Quizzes/Activities	20%
	Essay Exams (2 @ 20% each)	40%
	Final Exam	15%
	Total	100%

Homework: Homework is absolutely essential to the learning of Statistics. One cannot learn Statistics without doing Statistics. Regular homework will be assigned each week and is due the first class meeting the following week. Your homework will be evaluated on accuracy, completeness and neatness.

Homework Format: The following format must be followed in order to receive credit for your homework assignments:

- 1. Make sure that the sections and individual problems are in sequence.
- 2. Fold the homework in half lengthwise (the long way).

3. Write your name, the assignment number, and days and times the class meets on the front of the folded assignment (assume it should open like a book).

Quizzes: Quizzes are open book and will focus on all aspects of the course.

Activities: Cooperative leaning activities are an important part of this course. These assignments will be given and are to be completed during class time. Since these activities require group work, they must be completed in class.

Essay Exams: You will be assigned two take-home exams during the semester. You are encouraged to work together on these projects, and you are required to share your ideas and critique each other's work. Each of these projects will follow a schedule of drafts culminating with a final report. Your grade for each of these projects is based on the quality of your participation in this process as well as the quality of your final report.

Final Exam: The final exam for this course will be cumulative and consist of short essay questions, computations and interpretations. The final exam will be given only during the scheduled time. <u>Please make your vacation plans with this in mind</u>. If you need to be absent from the final for a reason that is not serious and compelling, you must drop the course before the deadline, or file a petition to waive college regulations (see me about this).

Disclaimer: I have conscientiously outlined the plans and policies for the semester in this syllabus. However unforeseen events and circumstances may deem necessary changes to any part of this document. I therefore reserve the right to make any changes to this syllabus determined to be necessary by me at any time during the semester.