

<b>Syllabus for: (name of class)</b> Elementary Statistics	
<b>Semester &amp; Year:</b>	Summer 2013
<b>Course ID and Section Number:</b>	Math-15-V3657
<b>Number of Credits/Units:</b>	4
<b>Day/Time:</b>	Asynchronous
<b>Location:</b>	Online
<b>Instructor's Name:</b>	
<b>Contact Information:</b>	Office location and hours: TBA Phone:707-476-4229 Email:todd-olsen@redwoods.edu
<b>Course Description (catalog description as described in course outline):</b> 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 frequency distributions, graphs, measures of relative standing, measures of central tendency, measures of variability, correlation, and linear regression to explore descriptive statistics. Students will use the laws of probability and statistical tests (t-tests, chi-square, ANOVA, and regression analysis) to make decisions via hypothesis testing and estimate parameters using confidence intervals.	
<b>Student Learning Outcomes (as described in course outline) :</b> <ol style="list-style-type: none"> <li>1. Accurately communicate statistical ideas using correct statistical notation, graphs, and vocabulary.</li> <li>2. Use descriptive and inferential statistics to solve real-world problems.</li> <li>3. Demonstrate appropriate use of technology in making decisions based upon real-world data.</li> <li>4. Read and interpret information that contains statistical analysis and be able to communicate these results.</li> <li>5. Judge the validity of research reported in the mass media and peer reviewed journals.</li> </ol>	
<b>Special accommodations:</b> 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.	

**Academic Misconduct:** Cheating, plagiarism, collusion, abuse of resource materials, computer misuse, fabrication or falsification, multiple submissions, complicity in academic misconduct, and/ or bearing false witness will not be tolerated. Violations will be dealt with according to the procedures and sanctions proscribed by the College of the Redwoods. Students caught plagiarizing or cheating on exams will receive an “F” in the course.

The student code of conduct is available on the College of the Redwoods website at:  
<http://www.redwoods.edu/District/Board/New/Chapter5/Ap5500.pdf>

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.

## Elementary Statistics - Online

Math 15

Summer, 2013

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**Instructor:** Garrett "Todd" Olsen **Office:** Virtual **Email:** [Todd-Olsen@redwoods.edu](mailto:Todd-Olsen@redwoods.edu)

**Prerequisite:** Math 120 (with a C or better) or an appropriate score on the assessment exam. Prerequisites ensure that students entering this class have adequate background to effectively learn the material in the class and that they have a reasonable chance of success.

**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.

**Computer Skills:** Success in online courses depends in part on adequate computer skills. Students must be able to navigate the course website, open and download files, use a word processor and convert files to portable document format (.pdf), take photos of written work and manage photographic file formats, and submit files to the MyCR course website. **There are two acceptable file formats for all submitted work: .pdf and .jpeg.** It is your responsibility to meet the technological demands of the course. Technological support is available via multiple online sources, and I will assist you in finding the most appropriate source for help.

**Computer/Technology Requirements:** Most computers and internet providers are adequate. I would recommend broadband services from cable, DSL, or satellite providers. You need to have reliable access to the internet and anticipate problems with your computer and internet access (including power outages) by not waiting until the last minute to submit assignments. It is your responsibility to meet the class deadlines.

**Textbook:** Interactive Statistics, 3<sup>rd</sup> ed., Martha Aliaga and Brenda Gunderson.

**Recommended Reading:** The Lady Tasting Tea, Salsburg, David.

**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.

<b>Grading:</b>	Homework	15%
	Quizzes/Activities	30%
	Essay Exams (2 @ 20% each)	40%
	<u>Final Exam</u>	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 due dates will be clearly noted in MyCR. Your homework will be evaluated on accuracy, completeness and neatness.

**Homework Format:** You will complete the homework assignments using pen and pencil then photograph each page with a smart phone, digital camera, or other electronic device. Your homework assignments must be in .jpeg or .pdf file formats. You are responsible for uploading these files into your MyCR dropbox before the deadline.

**Activities:** You will be assigned approximately five activities during the course. Some of these activities will require TI 83/84 programs. I will provide you with the source code for the programs, and you will need to get them into your calculator. There are two ways to accomplish this – 1. Use free connectivity software available from Texas Instruments, follow this link: <http://education.ti.com/en/us/software/search/computer-software#view=connectivity-software>

**Quizzes:** Quizzes will be administered weekly via MyCR's "Tests and Quizzes" tool. These are open-book quizzes, but you should **prepare as you would for a face-to-face class**. You are limited to a total of 30 minutes for each quiz and will not have time to search and find answers in the lectures or textbook. The quiz will cover the material covered each week. Each week the quiz will be posted to MyCR, and you may take the quiz anytime during the open period. Once you start the quiz though the clock starts, and you will have 30 minutes to complete the quiz. You are expected to follow the class code of conduct (see below).

**Essay Exams:** You will be assigned two take-home essay 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 problems similar to the quizzes and short essay questions. The final exam will be administered via MyCR's "Tests and Quizzes" tool. The final exam is open-book, but you should **prepare as you would for a face-to-face class**. You are limited to 2 hours for the final exam and will not have time to search and find answers in the lectures or textbook. You are expected to follow the class code of conduct (see below).

**Code of Conduct:** Please familiarize yourself with the Student Code of Conduct Standards in the college catalogue under campus policies and regulations. It is required that you do your own work. All papers, postings, activities, and exams must be completed by you without assistance. Any source used external to the course must be cited. Please be respectful to your classmates and be kind and considerate in all of your postings and responses.

**Mathematics Department Policy Regarding "Faculty Withdrawal" of Students after Census Day:** A student who is absent from class for the amount of time equal to two weeks of classes, will be withdraw from the course, unless there are extenuating circumstances that are communicated to the instructor in a timely manner. This "faculty withdrawal" can occur between Week 4 and Week 10 of the semester.

**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.