Syllabus for: (name of class)

Math 15: Elementary Statistics

Semester & Year:	Fall 2012
Course ID and Section Number:	Math 15-K2632
Number of Credits/Units:	4
Day/Time:	TTh 6:35-8:40 pm
Location:	HHS 209
Instructor's Name:	Steve Wright
Contact Information:	Office location and hours: Klamath-Trinity Instructional Site, by chance and by appointment Phone: 530-625-4846 Email: jsw8@humboldt.edu

Course Description (catalog description as described in course outline):

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.

Note: A TI-83 or TI-84 graphing calculator is required.

Student Learning Outcomes (as described in course outline) :

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 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.

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Requirements:

1. A TI-83, 83 plus, or 84 have the required statistics sub - package. Besides, I will demonstrate the key-strokes utilized in this technological application.

2. Student generated portfolio containing all notes, definitions, formulae, computer keystrokes, graded exams, completed labs and home-works. Of course, a complete notebook will have individual title page and a table of contents. Portfolios must be used for all exams, labs, and experiments.

Grading:

1. Attendance.

2. Participation.

3. 4 or 5 midterms, Final exam is a non-comprehensive examination; it's just the last midterm.

4. Completed portfolio. Due Week before last midterm (mid-May).

Course Outline :

An entry-level statistics providing competence in statistical analysis utilizing discrete, binomial, and normal probability distributions. Intro to sampling, confidence intervals and the persuasive power of the hypothesis test. Topics include ANOVA, linear regression, independence and homogeneity…. tons of graphs…. all about **central tendency and spread.**

Cheap Advice:

1. You must read, read, read. Statistics is rich with terminology and you must be familiar with the content. It's almost like a language and math class combined, You **read** the basics, the definitions, etc. and we'll do the math and technology parts together. It shouldn't be too difficult but you **must** keep up your reading.

2. Form a study group from members of our class even if you can only meet here on campus on class-day. Study groups work.

3. Take the portfolio seriously. Utilize it to stay familiar with the material. DON'T TRY TO MEMORIZE. Become conversant instead. Memorized material won't stay. Things you are familiar with will stay around.

4. If you want college credit, do college work. Serious students come to class. Good students don't require excuses. Superior students engage the material, make it their own, and bring lucid questions to share with the class.

5. Read the Tea Lady supplement and write a strong paper proving it and I'll kick your grade up one letter.