Syllabus for Math 15

Course Information

Semester & Year: Spring 2020
Course ID & Section #: MATH-15-E7447
Instructor's name: Dr. Ken Owens
Day/Time: TTH 6:05pm -8:10pm
Location: SCSC 202
Number of units: 4

Instructor Contact Information

Office location: Location: SCSC 202
Office hours: T Th 8:30-9:30
Phone number: 707-826-4249
Email address: ken-owens@redwoods.edu

Required Materials

Textbook title: Openintro Statistics
Edition: 4th
Author: David Diez
ISBN: openintro.org
Other requirement: TI 83 or 84 calculator/emulator and use of in-class computers.

Catalog Description

An introduction to basic concepts of descriptive and inferential statistics, with emphasis on the meaning and use of statistical significance. Students will use probability techniques to make decisions via hypothesis testing and will estimate parameters using confidence intervals. The course includes applications from a variety of technical and social science fields. Note: A TI-83 or TI-84 graphing calculator is required. The MATH-15S support course is strongly recommended to take concurrently for students without previous mathematical experience in courses such as Algebra II or Pathway to Statistics.

Course Student Learning Outcomes *(from course outline of record)*

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.

Evaluation & Grading Policy

There will be weekly paper Hw assignments assigned on canvas, two projects assigned in class and a comprehensive final exam. See the course schedule below for details. Grades will be assigned according to Hw 25%, Projects 25% and Final exam 50%. The final exam will be held Tuesday May 12th of Final Exam Week from 5:30pm – 7:30pm. Late assignments will loose 10% per week they are late.

Prerequisites/co-requisites/ recommended preparation

MATH-120 or MATH-194 or MATH-102. Recommended Prep: ENGL-150 or ENGL-102

Course Material

Unit	Chapters and Exams
1	Introduction Chapter 4: Normal Distribution Chapter 5: Foundations for Inference
2	Project I Chapter 6: Inference for Categorical Data Chapter 7: Inference for Numerical Data
3	Project II Chapter 7: Introduction to Linear Regression ANOVA
4	Project Poster Session Review Final Exam