



**Welcome to PSTAT5E:
Statistics with Economics and
Business Applications**

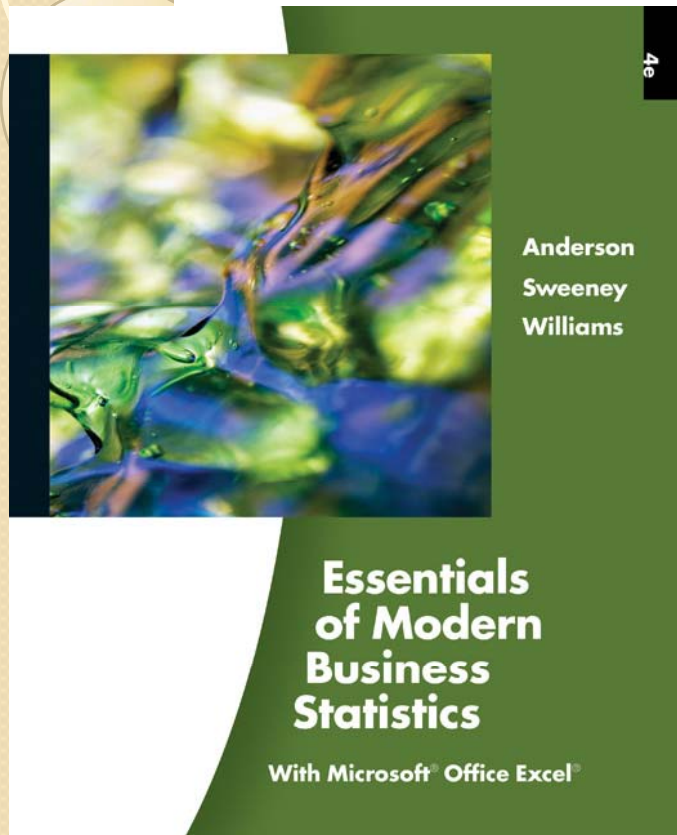
Syllabus

Yan Xu

Course Information

- **Lecture:** M-Th | 1:00am-12:20pm, **North Hall 1109**
- **Instructor:** Yan Xu
Office: South Hall 5431 W OH: MT 2:00-3:00pm
E-mail: xu@pstat.ucsb.edu
- **Teaching Assistant:** Matt Hancock
Office: South Hall 5431 U OH: TBA
Email: hancock@pstat.ucsb.edu
- **Discussion sections:**
Classroom: M 12:30-1:20 PHELP 1444
Lab: W 12:30-1:20 PHELP 1526
Classroom: T 1:00-1:50 GIRV 2116
Lab (Changed) : Th 1:00-1:50 PHELP 1525

**There is NO classroom section in the first week.
NO lab section in the last week.**



Text Book:

Essentials of Modern Business Statistics with Microsoft Excel, 4e, by D.R. Anderson, D.J. Sweeney and T.A. Williams, Thomson, 2009.

Calculator:

You will need a basic calculator and bring it to all lectures, discussions, quizzes and exams.

Purposes and Topics

- **Purpose of this class:**

The aim of this course is to introduce basic concepts of probability and statistics so that one is able to understand and perform simple data analysis. The emphasis will be on concepts and problem solving skills rather than on theory.

- **Topics:**

Descriptive statistics, graphs, measures of data, probability, random variables, mean and variance, binomial and normal distributions, confidence intervals, hypotheses testing, correlation and regression.

Tentative Schedule of Lectures

Week	Dates	Topics	Chapters
1	6/22-6/25	Syllabus , Intro to Data and Statistics, Descriptive Statistics, Intro to Probability	Ch I (Reading), Ch2-4
2	6/29-7/1, 7/2	Probability, Discrete Random Variables, Distribution, Midterm I	Ch4-6
3	7/6-7/9	Continuous RV's, Sampling Distributions	Ch6-7
4	7/13-7/15, 7/16	Estimation and Hypothesis Testing, Midterm 2	Ch8-9
5	7/2-7/23	Hypothesis Testing and Comparisons	Ch10-11
6	7/27-7/28, 7/29	Simple Regression, Final	Ch12

Homework and Quizzes

- **Homework** will be assigned every week but will not be collected and graded. Quizzes given in the discussion sections will be based on the homework problems.

Discussion Sections

Things to do in the classroom sections:

- Students and the TA work through homework problems.
- A 25 Minutes Quiz will be given every other week.

Things to do in the lab sections:

- TA teaches how to use Excel to do simple data analysis and demonstrates some examples.
- Assignments are given.

Grades

- 7.5% Quizzes completed during classroom section
- 7.5% Work completed during computer lab section
- 25% Midterm 1: Thursday, July 2^{ed} , 11:00-12:20
- 25% Midterm 2: Thursday, July 16th , 11:00-12:20
- 35% Comprehensive Final Exam: Wednesday, July 29th ,
Time TBA

Your single lowest quiz score from classroom section will be dropped. All lab section scores will be counted.

No make-up or early exams. No make-up quizzes and lab assignments.

Grades

As a general guideline, letter grades will be curved approximately as follows:

20 % A's

30 % B's

40 % C's

10 % D's

This is only a general guideline. If the class performs particularly well, more than 20% will be given an `A', and similarly if the class does not perform well.

Procedures if you suspect your work has been graded incorrectly

If you believe that an error has been made on your exam, return the exam to the TA immediately, stating your claim in writing. Your TA will then pass the script to me and I will re-grade the entire paper. Please note that grades can go down as well as up or remain the same.

Under no circumstances will a midterm paper that has been taken away from class be re-marked.

Class Web Page

- **Web page:** <http://www.uweb.ucsb.edu/~yanxu/>

You could find the link in the UCSB PSTAT grad student list.

Contents on the web page:

- Timely announcements
- Office hours and email addresses
- Discussion section schedule
- Class schedule and notes
- Homework, quizzes, exams and their solutions
- Practice exams

Extra Help

- **CLAS: Campus Learning Assistance Service** offers tutoring in small groups for this class.
- **Private Tutors:** If you really want to hire a private tutor, we recommend graduate students from the Department of Statistics,

Work Load

This is a 5-unit course and therefore, according to University regulations, it carries a workload of about 30 hours per week for summer quarters, which includes lectures, discussion sections and private study.

How to do well in 6 weeks?

Suggestions for success in the class:

- Attend all lectures and discussions
- Take all quizzes and exams
- Do the reading before attending lecture
- Do the homework and compare homework answers with solutions posted on the web site
- Study and practice solving problems before taking quizzes and exams
- Be sure you get help as soon as you start to feel lost. Please utilize office hours.