

ECON3818-300  
Introduction to Statistics with Computer Application  
Spring 2007

**Instructor:** Henry Chen  
PhD Candidate  
Research interests: Applied Econometrics, Computational Economics,  
and International Trade.

**Class Meeting Times:** MWF 2-2:50 pm @ HLMS199

**Office Location:** Econ 307

**Office Phone:** 303-492-7617

**Email:** [chenyh@colorado.edu](mailto:chenyh@colorado.edu)

**Class Website:** <https://ucsu.colorado.edu/~chenyh>

**Office Hours:** Monday 3-5:30pm AND by appointment

**Teaching Assistance:** Gregory Pac

**Recitations:**

311	9:00-9:50	F	MUEN E114
312	4:00-4:50	W	MUEN E126
313	5:00-5:50	R	HLMS 245

**Course Description and Objectives:**

For most of you, this will be your first statistics course. Thus, this course will begin from the basic statistical concepts and introduce its applications to a variety of problems. A strong emphasis will be placed on the analysis of data which require extensive use of Microsoft Excel on the computer and a graphing calculator in class. In order to succeed in the course, you will need to keep up with all of the work (lecture, recitation, and homework, etc.). Class and recitation attendance is mandatory. Also, it is necessary to have solid foundational skills in algebra and to keep up with the class lectures and homework. Please note that while we will make use of the statistical tools in Excel, the class is primarily a statistics course and not a computer applications course.

**Textbook:**

Required: Moore: *The Basic Practice of Statistics*, 4<sup>th</sup> Ed.  
Optional: Wonnacott: *Introductory Statistics*.

**Prerequisites:**

ECON 1000, or 2010 and 2020; and either ECON 1078 and 1088, or MATH 1300, or MATH 1310, or MATH 1081, or MATH 1080, 1090, and 1100, or APPM 1350, or equivalent.

**Technical Requirements:**

We will utilize Microsoft Excel for this course. Excel is available in all campus computer labs, including the lab in the basement of Economics. In addition to using Excel, you will need a two variable graphing calculator that has functions for correlation, mean, standard deviation, and least squares regression line. This calculator will be necessary for in-class exercises as well as for tests.

**Grading:**

The grade for this course will be calculated as follows:

Midterm1 : 20% (Wed Feb 21 in class)

Midterm2 : 20% (Wed Apr 4 in class)

Final : 30% (Sat May 5 7:30 a.m. – 10:00 a.m.)

Homework : 20% (Drop 2 problem sets out of 12)

Recitation : 10%

100-90%	A
89-80%	B
79-70%	C
69-60%	D
59&below	F

**Tentative Course Schedule:**

Week of	Course Material	Topics	Homework		
			Post	Due	
1	1/15	Ch1	Picturing Distributions with Graphs	PS1	
2	1/22	Ch2, Ch3	Describing Distributions with Numbers	PS2	PS1 (Fri 1/26)
3	1/29	Ch3, Ch4	The Normal Distributions	PS3	PS2 (Fri 2/02)
4	2/5	Ch4, Ch5	Scatterplots & Correlations	PS4	PS3 (Fri 2/09)
5	2/12	Ch5, Ch6	Regression & Two-Way Tables	PS5	PS4 (Fri 2/16)
6	2/19	Ch7, <b>Midterm1</b>	<i>Mid1: Wed 2/21</i>		PS5 (Fri 2/23)
7	2/26	Ch8, Ch9	Producing Data: Sampling & Experiments	PS6	
8	3/5	Ch10	Introducing Probability	PS7	PS6 (Fri 3/09)
9	3/12	Ch11, Ch14	Sampling Distributions & Confidence Intervals	PS8	PS7 (Fri 3/16)
10	3/19	Ch15, Ch16	Significance & Inference	PS9	PS8 (Fri 3/23)
11	3/26	Spring Break			
12	4/2	Ch17, <b>Midterm2</b>	<i>Mid2: Wed 4/04</i>		PS9 (Fri 4/06)
13	4/9	Ch18	Inference About a Population Mean	PS10	
14	4/16	Ch19	Two-Sample Problems	PS11	PS10 (Fri 4/20)
15	4/23	Ch20, Ch21	Inference About a Population	PS12	PS11 (Fri 4/27)
16	4/30	Ch21, <b>Final</b>	Comparing Two Samples, <i>Final: Sat 5/05</i>		PS12 (Fri 5/04)

**Homework and Make-Up Exams:**

Problem sets MUST be submitted to me ONLY at the beginning of the Friday's classes, NOT to your TA during any recitation. I will post the assigned problem set on my website a week before the due date. Since the corresponding answer key will be posted immediately after the due date, and two of your problem sets will be dropped, late homework will NEVER be accepted. Also, there will be NO make up exams.

**Honor Code:**

All students of the University of Colorado at Boulder are responsible for knowing and adhering to the academic integrity policy of this institution. Violations of this policy may include: cheating, plagiarism, aid of academic dishonesty, fabrication, lying, bribery, and threatening behavior. All incidents of academic misconduct shall be reported to the Honor Code Council (honor@colorado.edu; 303-725-2273). Students who are found to be in violation of the academic integrity policy will be subject to both academic sanctions from the faculty member and non academic sanctions (including but not limited to university probation, suspension, or expulsion). Other information on the Honor Code can be found at <http://www.colorado.edu/policies/honor.html> and at <http://www.colorado.edu/academics/honorcode/>

**Expectations of Classroom Behavior:**

Students and faculty each have responsibility for maintaining an appropriate learning environment. Students who fail to adhere to behavioral standards may be subject to discipline. Faculty have the professional responsibility to treat students with understanding, dignity and respect, to guide classroom discussion and to set reasonable limits on the manner in which students express opinions.

See policies at

<http://www.colorado.edu/policies/classbehavior.html> and at [http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student\\_code](http://www.colorado.edu/studentaffairs/judicialaffairs/code.html#student_code)

**Absences:**

Campus policy regarding religious observances requires that faculty make every effort to reasonably and fairly deal with all students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Please notify me as soon as possible so that the proper arrangements can be made. Students can see full details at [http://www.colorado.edu/policies/fac\\_relig.html](http://www.colorado.edu/policies/fac_relig.html)

**Disabilities Statement:**

If you qualify for accommodations because of a disability, please submit to me a letter from Disability Services in a timely manner so that your needs may be addressed. Disability Services determines accommodations based on documented disabilities. Contact: 303-492-8671, Willard 322, and <http://www.Colorado.EDU/disabilityservices>.

Time extensions for exams must be approved by me prior to the exam. If you have not talked to me personally prior to the exam you will not be granted an extension.

Disability Services' letters for students with disabilities indicate legally mandated reasonable accommodations. Other letters/requests you may receive from agencies such as the Wardenburg Student Health Center, or other health providers, such as physicians or counselors, are recommendations you may choose to follow to assist students but are not necessarily legal mandates. The syllabus statements and answers to Frequently Asked Questions can be found at <http://www.colorado.edu/disabilityservices>