

ECON3818-200
Introduction to Statistics with Computer Application
Spring 2008

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

Class Meeting Times: TR 8-9:15 am @ HALE 230

Office Location: Econ 307

Office Phone: 303-492-7617

Email: chenyh@colorado.edu

Class Website: <https://culearn.colorado.edu>

Office Hours: MT 3-4:15 pm and by appt.

Teaching Assistance: Megumi Nishimura

Email: megumi.nishimura@colorado.edu

Recitations:

211	0400PM-0450PM	R	EDUC 136
212	1200PM-1250PM	W	DUAN G2B47
213	0200PM-0250PM	W	GUGG 3

Course Description and Objectives:

This course will begin from the basic statistical concepts and introduce their applications to a variety of problems. A strong emphasis will be on the analysis of data which require extensive use of Microsoft Excel on the computer and a graphing calculator in class. To succeed in the course, you will need to keep up with all of the work (lecture, recitation, and homework, etc.). Also, reading the textbook carefully is necessary. Class and recitation attendance is mandatory. It is necessary to have a solid background in algebra and to keep up with the lectures and the problem sets. 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*, 4th Ed.

Optional: Wonnacott et al. : *Introductory Statistics*.

McClave et al. : *Statistics for Business and Economics*.

Prerequisites:

ECON 1000 or 2010-2020 & 1078-1088 or MATH 1300 or MATH 1310 or MATH 1081 or MATH 1080, 1090 & 1100 or APPM 1350 or EQUIV.

Technical Requirements:

We will use Microsoft Excel. It is available in all campus computer labs, including the lab in the basement of the Economics Department. In addition to 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 assignments as well as for the exams.

Grading:

- Midterm1 : 20% (Thursday, Feb 21st @ HALE230)
- Midterm2 : 20% (Thursday, April 3rd @ HALE230)
- Final : 30% (10:30 a.m. - 1:00 p.m. Wed. May 7th @ HALE230)
- Homework : 20% (Drop 2 problem sets out of 12)
- Recitation : 10%
- Extra Credit : > 0% (In-Class assignment, Attendance, etc.)

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

Tentative Course Schedule:

Week of	Course Material	Topics	Problem Sets	
			Post	Due
1	1/14	Ch1	Picturing Distributions with Graphs	PS1
2	1/21	Ch2, Ch3	Describing Distributions with Numbers	PS2 PS1 (T 1/22)
3	1/28	Ch3, Ch4	The Normal Distributions	PS3 PS2 (T 1/29)
4	2/4	Ch4, Ch5	Scatterplots & Correlations	PS4 PS3 (T 2/05)
5	2/11	Ch5, Ch6	Regression & Two-Way Tables	PS5 PS4 (T 2/12)
6	2/18	Ch7, Midterm1	<i>Mid1: Thursday, Feb 21st</i>	PS5 (T 2/19)
7	2/25	Ch8, Ch9	Producing Data: Sampling & Experiments	PS6
8	3/3	Ch10	Introducing Probability	PS7 PS6 (T 3/04)
9	3/10	Ch11, Ch14	Sampling Distributions & Confidence Intervals	PS8 PS7 (T 3/11)
10	3/17	Ch15, Ch16	Significance & Inference	PS9 PS8 (T 3/18)
11	3/24	Spring Break		
12	3/31	Ch17, Midterm2	<i>Mid2: Thursday, April 3rd</i>	PS9 (T 4/01)
13	4/7	Ch18	Inference About a Population Mean	PS10
14	4/14	Ch19	Two-Sample Problems	PS11 PS10 (T 4/15)
15	4/21	Ch20, Ch21	Inference About a Population Proportion	PS12 PS11 (T 4/22)
16	4/28	Ch21	Comparing Two Proportions	PS12 (T 4/29)
17	5/5	Final	<i>Final: 10:30 am - 1:00 pm Wed. May 7th</i>	

Homework and Make-Up Exams:

All problem sets must be submitted to me BEFORE or AT the beginning of the Tuesday's classes, NOT to your TA during any recitation. I will post the problem set on CUlearn a week before the

due date (see the above course schedule). Since the answer key will be posted immediately after the due date, late homework will NEVER be accepted.

General Policies:

- (1) There will be NO make-up in-class assignment, quiz, or exam for this class without a formal document. If you need to take the final other than the scheduled time, I must be informed at least two weeks ahead with a formal document.
- (2) If you have any question about the materials, like problem sets, you are more than welcome to go to my office hours after making appointment with me.
- (3) You are responsible for any missing class. If you miss any class, please download the notes from CULearn AND read the materials in advance BEFORE going to my office hours. I am not going to re-lecture the old materials during my office hours since it will waste other students' time.
- (4) According to the university policy, no grades are allowed to be released via email. In other words, I am prohibited from emailing any grade to you.
- (5) Any concern or question about your grade should be raised within one week after it is posted on CULearn.

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

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

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>