

ECON 3818-300

Introduction to Statistics with Computer Application

Fall 2009

Instructor: Meg Nishimura

PhD candidate (Graduate student)

Research Interests: International Trade, Industrial Organization

Class Meeting Times: TR 2:00-3:15 PM @ EDUC 220

Office Location: ECON 309A

E-mail: Megumi.Nishimura@colorado.edu

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

Office Hours: TR 3:30-4:30 PM & By Appointment

Teaching Assistant: Mr. Kenton Richard White

E-mail: Kenton.White@colorado.edu

Recitations:

311 8:00-8:50 T HUMN 370

312 5:00-5:50 T CLRE 212

313 5:00-5:50 R CLRE 212

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.

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]

David S. Moore *The Basic Practice of Statistics*, 5th Edition

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 Equivalent.

Technical Requirements:

We will use Microsoft Excel. It is available in all campus computer labs, including the lab in the basement of 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 exams.

Grading:

Midterm 1:	15% [Thursday October 1]
Midterm 2:	20% [Thursday November 12]
Homework:	20% [Drop 2 problem sets out of 12]
Cumulative Final	30% [Saturday, December 12 , 1:30-4:00]
Recitation:	10%
Attendance:	5%
+ Extra credit in-class assignments	5-10% (Depending on class average)

Score	Grade	Score	Grade
93- 100 %	A	73- 76.99 %	C
90- 92.99 %	A -	70- 72.99 %	C -
87- 89.99 %	B +	67- 69 .99%	D +
83- 86.99 %	B	63- 66 .99%	D
80- 82.99 %	B -	60- 62 .99%	D-
77- 79.99 %	C +	Below 60	F

Exams

1. There will be **NO make-up exam without a formal document.**
2. **If you have 3 or more final exams on the same day,** you are entitled to arrange an alternative exam time for the last exam scheduled on that day. To qualify for rescheduling final exam times, you must provide evidence that you have 3 or more exams on the same day, and **you must make arrangements no later than the 6th week of the semester [Week of September 28th, 2009.]**
3. I will announce before each exam the topics that will be covered. All exams will be held in the usual classroom (**EDUC220**)

Tentative Course Schedule

The following schedule is subject to change. Since exam dates are fixed, they will cover only the material that has been finished.

Week of		Course Material	Difficulty Level	Problem Sets	
				Post	Due
1	8/24	Ch 1 Picturing distributions	★	PS1	
2	8/31	Ch 2 Describing distributions	★★	PS2	PS1
3	9/7	Ch 3 The Normal Distributions (important)	★★★	PS3	PS2
4	9/14	Ch 3 The Normal Distributions (important)	★★★	PS4	PS3
5	9/21	Ch 4 & 5 Regression	★★	PS5	PS4
6	9/28	Midterm 1: Thursday, Oct 1	★★	PS5	
7	10/5	(Ch 8) Ch 10 & Ch 12 Probability	★★	PS6	
8	10/12	Ch 11 Sampling Distributions	★★★	PS7	PS6
9	10/19	(Ch 13) Ch 14 Confidence Intervals	★★★	PS8	PS7
10	10/26	Ch 15 Test of Significance	★★★	PS9	PS8
11	11/2	Ch 16 Inference in practice	★★★★	PS10	PS9
12	11/9	Midterm 2: Thursday, November 12	★★★★		PS10
13	11/16	Ch 18 Inference about a population mean	★★★	PS11	
14	11/23	Autumn Break			
15	11/30	Ch 19 Two-Sample problems Ch20 Inference about a population proportion	★★★	PS12	PS11
16	12/7	(Ch 21 Comparing two proportions)	★★★		PS12
17	12/12	Final Exam: Saturday, December 12			

Homework :

- All problem sets must be submitted to me by the DUE DATE.
- You are requested to submit your homework at the class or the homework box in the ECON department.
- Please do not submit your homework by e-mail.
- Please do not submit your homework to Mr. Kenton (your TA).
- I will post the problem set on CU Learn a week before the due date.
- Late homework will Never be accepted without official reasons.

General Policies

4. There will be NO make-up exam for this class without a formal document. If you need to take the final other than the scheduled time, you have to inform me at least 2 weeks ahead with a formal document.
5. If you have any question about the materials, like problem sets, you are more than welcome to come to my office hours.
6. Any concern or question about your grade should be raised within 1 week after it is posted on CU Learn.

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/hono.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 a http://www.colorado.edu/studentaffairs/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 inform 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