

University of Colorado at Boulder
Department of Economics
Econ 3818-100 - Introduction to Statistics with Computer Applications
Instructor - Paulo Saraiva
Summer 2012

Office: Econ 14

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Class Meetings: MTWRF 9:15am - 10:50am, ECON 117

Office Hours: MTWR 11am - 1:30pm, or by appointment.

Recitation Sections:

Section	Location	Meetings
101	EDUC 132	MW 11am - 12:20pm
102	EDUC 132	TR 11am - 12:20pm

There will be no recitation on Monday and Tuesday of the first week of class.

General:

Economics 3818 is a one-semester course in statistics. [Economics 3818](#) (course ID: 9.96m)

course. Lectures are sequential in this course, so missing class and not studying the missed material before the next lecture is a recipe for disaster. ~~do not~~ **do not over-emphasize how important classes are in order to obtain a passing grade.** Although attendance is not mandatory, you are responsible for any announcement or instructions given in class.

Prerequisites:

Econ 1000, or 2010 and 2020 and either Econ 1078 and 1088 or equivalent math courses. The latter prerequisites are strictly enforced, if you are listed as not meeting the course prerequisites, you must show me that you have the appropriate math equivalent.

We will be using differentiation and integration.

Homework: I will post 3 homework on CULearn. The due dates will be clear in the homework file when posted. I will also post on CULearn a pdf answer sheet for you to submit your homework answers. I do not accept homework that is not in the answer sheet format. For homework, I will grade only your answer, as the answer sheet suggests.

Exams: None of the exams are cumulative, not even the final. In the exams you must show the work for all non true or false questions. Answers, even if correct, without the appropriate "work" and calculations shown will be given zero points. This does not mean you have to show me how to add and multiply, what it means is that if the question requires you to make some mathematical steps, those steps should be shown in your answer. There may be questions on exams that requires a written explanation, therefore such explanations must be shown in order for you to get full credits in these questions. Some exams might have bonus questions. No one will obtain more than 100% in an exam. For the final, I will give you in class a list of atrocities. If you write any of these atrocities or anything resembling them, you will receive -1% for each time you write it. Iof stepsou in88in mn8

Ashenfelter, O., P. Levine & D. Zimmerman (2006) **Statistics and Econometrics: Methods and Applications** John Wiley & Sons, New York, NY.

Bradley, T. (2007) **Essential Statistics for Economics, Business and Management** John Wiley & Sons, New York, NY.

Johnson, R. & G.K. Bhattacharyya (2010) **Statistics: Principles & Methods** (6th edition). John Wiley & Sons, New York, NY.

Spanos, A. (1999) **Probability Theory and Statistical Inference: Econometric Modeling with Observational Data** Cambridge University Press, New York, NY.

Chiang, A. & K. Wainwright (2005) **Fundamental Methods of Mathematical Economics** McGrall-Hill, New York, NY.

Course outline:

Probability and random variables (about 1/3 of the course)

Estimation and Inference (about 2/3 of the course)

Miscellaneous:

Hardware and Software: R will be used for some data analysis. Although not required, there are many excellent R manuals available. R is supported in many of the campus computer labs, including the lab in the basement of the Economics building. R is an open source program which can be downloaded in <http://cran.r-project.org/>. You may use other softwares, such as Excel, however, I will not cover Excel in this class. In addition to this you will need a calculator for the exams.

Visit <http://webdata.colorado.edu/labs/map/> for a list of computer laboratories and available software.

Special accommodations:

Refer to <http://www.colorado.edu/di-sabi/lityservices>.

E-Mail Policy: I will not answer questions about statistics via email. Those emails with questions about statistics will be ignored. If you should have any questions, please come to office hours or ask during class as the material is being presented. I will not answer any question on an email in which the answer can be found on the syllabus. I do not repeat in class announcements in emails.

Participation: Participation is highly recommended. No question shall be labeled "stupid" and I will not tolerate disrespect to one's question, answer or observation.

Office hours: I will not give away answers to problem sets during office hours. During office hours I will answer specific questions about the material. However, if the question is of the type, "How do I answer this question of the problem set", and you have not yet handed in the problem set, I will not answer it.

Make up work: There is no make up exams.

Late work: Work handed in late will have 30% taken away from it. After that, 10% will be marked off for each day the work has not been handed in.

Enjoy!