

AREC\ECON 735
Spring 2010
Marco Costanigro

Econometric Theory II: Core Topics (2 credits)

TIME: 12:30-1:45 Tuesday-Thursday Gifford 149

Instructor: Marco Costanigro

Contact: Phone:(970) 491-6948

Email: Please use RamCT 335 tool

Office Hours 1:30-3:30 Mon, Wed
(Clark B-326) and by appointment

Class Email Reply: 2:30-3:30 Mon through Fri

Texts: **Required:** Microeconometrics: Methods and Applications by A.C Cameron and P. K Trivedi Cambridge University Press. 2005. ISBN: 0521848059

Suggested: Econometrics Analysis (sixth edition) by William Greene. Prentice Hall.
ISBN: 0135132452

Objectives:

1. Expand students' fundamental knowledge of econometric core methods beyond the classical linear model. In addition to technical proficiency, students will gain an understanding of the implications of the assumptions inherent to alternative estimators and modeling approaches; and the ability to use theory, sample and out of sample information to make appropriate methodological decisions
2. Providing the foundation necessary to independently consult, comprehend and use advanced econometric models not explicitly treated in class.

Homework Exercises

I will assign 3-4 group homework exercises over the 10 weeks of course. You may work in groups of *up to 3 people*. If you choose to work in a group, which is highly encouraged, please submit only one copy of each assignment with the names of the participants on the front.

Computer Software:

No specific econometric software is mandated, but homework assignments will imply the joint use of "canned" software (e.g. STATA) and a matrix environment software (e.g. Gauss or MATA). While I will provide some basic guidance, I expect students to use manuals and online help to self-teach the use of the chosen statistical software.

Course Evaluation:

As a default, the grades are as assigned as follows: A = $\geq 90\%$; B = 80-89%; C = 70-79%; D = 60-69%; F = $< 60\%$. Pluses and minuses will be used at the discretion of the instructor.

Core Topics (2 credits): **2/3 of the final score determined as follow**

Group Homework Exercises	30%
Exam I	35%
Exam II	35%

One Credit Module (Time Series): **1/3 of the final score**

Course Policies and Exceptions

1. **Homework exercises** are due on the stated due date. Beyond that, no assignments will be accepted.
2. If you have a **documented disability** that requires special arrangements, please let the instructor know immediately at the beginning of the course.
3. **Academic integrity** is expected. No cheating will be accepted, period. See the Student Handbook and CSU Honor Code available at:
<http://www.studentaffairs.colostate.edu/resources/students/policies.asp>
4. Always show appropriate **respect** for your instructor and fellow students. This means, among other things, that **cell phones** should be turned off or on mute prior to class.

Tentative Course Timeline

Week	Date	Instructor	Topic	Book Chapters	
				C&T	Greene
1	18-Jan	Costanigro	Estimation Frameworks in Econometrics		14
2	25-Jan	Costanigro	MLE	5	16
3	1-Feb	Costanigro	MLE/Hypothesis testing under MLE (Wald, LM, LR,)	7	16
4	22-Mar	Costanigro	Limited Dependent Variable Models (Binary)	14	23
5	8-Feb	Costanigro	GMM	6	15
6	15-Feb	Costanigro	GMM	6	15
7	22-Feb	Costanigro	Nonparametric Methods	9	15
8	1-Mar	Costanigro	Nonparametric Methods		
9	8-Mar	Costanigro	Linear Panel Models	21	9
10	15-Mar	Spring Break	Spring break		
11	29-Mar	Costanigro	Limited Dependent Variable Models (Multinomial)	15	23
12	5-Apr	Cutler	Analysis of Time Series Data		
13	12-Apr	Cutler			
14	19-Apr	Cutler			
15	26-Apr	Cutler			
16	3-May	Cutler			
	4-May	Finals Week			