AREC\ECON 735  
Spring 2018  

Econometric Theory II: Core Topics (details on the panel data module will follow)  

TIME: 9:30-10:45 Tuesday-Thursday Clark C362  

Instructor: Marco Costanigro  
Contact:  
Phone:(970) 491-6948  
Email: marco.costanigro@colostate.edu  

Office Hours Tuesday 2:00-3:30 pm and by appointment (PM hours)  

Texts:  

Objectives:  
1. Expand students’ fundamental knowledge of econometric core methods beyond the classical linear model to include fully parametric, semi-parametric and non-parametric estimation methods. 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 4-5 group homework exercises over the first 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 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. This course will adhere to the CSU Academic Integrity Policy as found on the Student Responsibilities page of the [CSU General Catalog](https://www.csu.fullerton.edu/) and in the **Student Conduct Code**. At a minimum, violations will result in a grading penalty in this course and a report to the Office of Conflict Resolution and Student Conduct Services.
4. Always show appropriate **respect** for your instructor and fellow students. This means, among other things, that **cell phones** should be muted prior to class.
5. Exams: This is a two credits course, concluded at the end of March. The first exam will be at mid-course. The second exam (comprehensive) will be one week after the end of the course (perhaps outside of class hours). I will discuss options with the class over the course of the semester.

**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.

**Grading**
**Rule A**
- Group Homework Exercises 30%
- Exam I (75 min) 35%
- Exam II (comprehensive, 2 hours) 35%

**Rule B**
- Group Homework Exercises 30%
- Exam II (comprehensive, 2 hours) 70%

I will use the highest score from calculating both Rule A and Rule B.
Tentative course Timeline (subject to change at the discretion of the instructor)

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<td>Matrix review and Properties of Estimators</td>
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