ECON 8110  
Econometrics I  
Course Syllabus

INSTRUCTOR

Chris Cornwell  
534 Brooks Hall  
cornwl@uga.edu  
706-542-3670  

Office hours  
Mon, 130-230  
and by appointment

COURSE DESCRIPTION

ECON 8110, one of the three courses in the department's advanced econometrics sequence, focuses on the analysis of cross-section and panel data. Particular attention is given to instrumental variables, which serves as the framework for addressing many of the estimation problems considered in the course. Program evaluation methods are also covered. ECON 8080 is a prerequisite.

COURSE OBJECTIVE

Students will learn how to specify and estimate cross-section and panel regression models, and test hypotheses about model parameters, using instrumental variables and the generalized method of moments. Students will also learn specialized estimation techniques for program evaluation.

COURSE MATERIAL


Other Useful Texts for this Course:

TOPICAL OUTLINE

1. Cross-section regression: review and extensions
   1.1. Ordinary least squares
   1.2. Instrumental variables
   1.3. Control function approach to endogeneity
   1.4. Other data structures

2. Multivariate linear models
   2.1. SUR models
   2.2. GMM estimation of linear systems

3. Estimation with panel data
   3.1. Linear models under strict exogeneity
   3.2. Linear models under sequential exogeneity
   3.3. Limited dependent variable models

4. Causal inference and program evaluation
   4.1. Difference in differences
   4.2. Propensity score and matching methods
   4.3. IV revisited
   4.4. Regression discontinuity design

ASSIGNMENTS AND GRADING POLICY

Performance will be evaluated on the basis of 3 problem sets and a final exam, weighted as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>problem sets</td>
<td>.60</td>
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<tr>
<td>final exam</td>
<td>.40</td>
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You will be ranked relative to other students in the class according to your overall performance and grades assigned based on your class rank. I will use the plus/minus system to make distinctions within grade categories.

Class Attendance

Regular class attendance is expected. **UGA academic regulations** authorize a professor to withdraw students with excessive absences and I will exercise that authority.
Exam Dates & Policies

The final exam is scheduled for **Thu, Dec 8 at 800a**.

**Failure to take the final exam at the scheduled time will result in a grade of zero.** There is one and only one exception to this rule: if you have a documented family emergency or personal illness. In this case, you must resolve the situation as promptly as possible. If you know now that you will not be able to take the final exam at the scheduled time, then you should drop this course.

**ELECTRONIC DEVICE POLICY**

Cell phones must be muted or turned off and stowed away during class. Laptops may be used in class, but only for purposes directly related to the course (e.g., taking notes and viewing course materials).

**UNIVERSITY HONOR CODE & ACADEMIC HONESTY POLICY**

As a University of Georgia student, you have agreed to abide by the University’s academic honesty policy, “A Culture of Honesty,” and the Student Honor Code. All academic work must meet the standards described in “A Culture of Honesty” found at: [www.uga.edu/honesty](http://www.uga.edu/honesty). Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation. Questions related to course assignments and the academic honesty policy should be directed to the instructor.

**CHANGES TO THE SYLLABUS**

The syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.