ECON 900–001
Advanced Econometrics
Methods for Empirical Microeconomics

P.W. Wilson Spring 2012

Class location and time: 212 Sirrine Hall, Tue. and Thu., 12:30–1:45pm
Office: 200D Sirrine Hall
Office hours: 3:00–4:00pm Tue. and Thu., or by appointment
Email: pww@clemson.edu
WWW: http://www.clemson.edu/economics/faculty/wilson

Textbook:

• A.C. Cameron and P.K. Trivedi (2005), Microeconometrics: Methods and Applications, New York: Cambridge University Press.

Additional course materials can be accessed by going to my home page (see above), clicking on the link entitled “course materials for students,” and following the obvious links.

Course Objectives:

This course develops analytical and econometric techniques, both parametric and non-parametric, for work in empirical economics. Topics to be covered include

• seemingly unrelated regressions;
• simultaneous equations;
• IV estimation;
• GMM estimation;
• non-parametric regression;
• semi-parametric regression;
• specification testing;
• model selection.

This list is tentative; some topics may not be covered, while others not listed here may be covered. Choice of topics to be covered will depend upon students’ needs and interest as well as available time.

Intended Audience:

This is a graduate-level course for Ph.D. students in economics, statistics, management science, operations research, and perhaps other areas who are interested in cross-sectional estimation and inference. Students should have a working knowledge of statistics and probability at the level of ECON 806 (Econometrics I), and linear estimation at the level of
ECON 807 (Econometrics II), and maximum likelihood estimation at the level of ECON 808 (Econometrics III).

**Course Grade Determination:**

Students will have the following opportunities to demonstrate their abilities:

- homework assignments (10%);
- in-class presentations (30% each); and
- a paper (60%).

The relative weightings shown above are approximate. In particular, homework assignments are mandatory, as is class attendance. Shirking will result in (perhaps severely) reduced grades.

Class attendance is not mandatory in the sense that I will not check the class roster in each class. However, it is not possible to pass this class (or any other worthwhile graduate-level class) without attending and actively engaging in the intellectual exercises that take place in class.

Reading assignments will be made in class. Students should review material from the previous class as well as any reading assignments before each class.

**Office Hours:**

My office hours are shown above. If you need to see me at other times, I will be happy to meet with you; a good approach is to ask me about an appointment after class. I will be happy to meet with you.