Course Outline

Sept. 5  
0. Introductions  
   (2) S1.1-1.3; (3) S1.1-1.2; (5) C1; (7) S0.1-0.2.

Sept. 9, 16  
I. The classical normal regression model.  
The linear statistical model, assumptions; least squares  
criterion and estimates; sampling distributions; Gauss-Markov  
theorem; estimation and hypothesis testing under the normality  
assumption.  
   (2) C6-C7; (3) S2.1-2.2, 2.5-2.6, (4) C7, S10.1-10.2; (5) C7-C8;  
   (7) C3.

Sept. 23-Oct. 14  
II. The generalized classical normal regression model.  
Aitken's theorem and the GLS estimator; some models of  
heteroskedasticity; some models and estimators for  
autocorrelation; disturbance related (seemingly unrelated)  
regression model.  
   (2) C10.14; (3) P113-119, C4; (4) S8.1; (5) S12.1-12.4; (7)  
   S6.1-6.2

   (2) C15; (3) C5; (4) S8.2; (5) S12.5-12.8; (7) S6.3-6.5.

   (2) C11; (3) C6; (4) S12.3; (5) S14.4; (7) S7.1-7.4.

Oct. 24  
Midterm Exam

Oct. 28-Nov. 4  
III. Asymptotic distribution theory  
Probability limits and limiting distributions; asymptotic  
properties of some GLS estimators.  
   (1) S3.1-3.5;  
   (2) S9.3-9.4; (7) S8.1-8.3.

Nov. 11, 18  
IV. Introduction to simultaneous equations  
Formulation and the identification problem; methods of  
estimation.  
   (1) C4-C8;  

Nov. 25-Dec. 9  
V. Topics in microeconometrics  
Maximum likelihood estimation; limited and discrete dependent  
variables; pooling time series and cross section data;  
frontier production and cost function models.  
   (1) S3.6; (2) S7.1; (7) S8.4-8.6  
   (2) C18; (3) C14; (6) C1-3.6; (7) S12.5.  
Keener & Waldman, (1984); Lee & Waldman (1986); Amemiya,  
(1981); Melfi & Waldman (1986); Waldman (1981).  
   (2) C16; (3) S8.1-8.4; (4) S12.2; (5) S14.2; Mundak (1978).  
   (3) S7.3; Olson, Schmidt & Waldman (1980); Schmidt (1986);  
References

Texts: (For core material, sections I-IV).


Journal Articles (For topics, section V)


