

Grading:

Examinations and assignments for the course will total approximately 600 points. The approximate distribution of these points is as follows.

First Examination	100 points
Second Examination	100 points
Problem Sets	250 points
Final Examination	150 points

The instructor reserves the right to change the percentage of points in the course requirements. The most likely change will be to problem sets. Quizzes and additional out-of-class assignments may be added. It is most likely that the points allocated to out-of-class assignments will be increased. But, any changes will be communicated.

Final grades for the course will be determined on the standard modification to the 90-80-70-60 scale that accompanies Graduate School courses. Any student receiving less than 80% on the graded course material will receive an "C." There are no exceptions and no negotiation. (In addition, any student receiving less than 60% on the graded course material will receive an "F.") If a student shows strong improvement in exam scores over the semester, the instructor reserves the right to weigh the end-of-semester exams more heavily when calculating that student's final grade. The instructor will make minimal use of the +/- grading system.

Assignments:

There will be three in-class examinations. There will be two 100-point exams given during the semester. Make-up exams will be the option of the instructor. If any student must miss an exam due to an emergency, or due to a scheduling conflict, which is communicated to the instructor prior to the exam then the student's final grade may be based on the other exams taken. There will be a 150-point final exam at the end of the semester.

Students will be assigned approximately five problem sets. This work will expose the student to a variety of problems. The instructor will provide any data and ask a variety of questions related to modeling and economic interpretation. Students will perform the analysis and write a short report describing the results of the analysis and answering the questions. The work must be an independent effort on the part of each student. Students will need to become familiar with at least one spreadsheet and statistical regression software package.

Academic Integrity Policy:

University academic integrity policies will be strictly enforced and enforced with maximum penalty. Students should read and know these policies. The policies are published in the General Catalog.

Final Exam:

The final exam is scheduled for May 15, from 1:30 p.m. to 3:30 p.m. Any exceptions to this must be cleared with the instructor by May 1. The exam will be comprehensive or with a slightly heavier influence on the last portion of the course.

Course Outline

Topics	Readings
I. Review of Matrix Algebra (Not covered in class. Students review independently.)	Greene Appendix A Goldberger 14.2
II. Statistics Review	
Probability and Distribution Theory	Greene Appendix B Goldberger Chapters 1-8
Statistical Inference	Greene Appendix C Goldberger Chapters 8-11
III. Classical Regression Model	Goldberger Chapters 13-21, 24-25 Greene Chapters 2-6
IV. Generalized Classical Regression Model	
Principles	Goldberger Chapter 27 Greene Chapter 10
Heteroskedasticity	Goldberger Chapter 28 Greene Chapter 11
Autocorrelation	Goldberger Chapter 28 Greene Chapter 13
Seemingly Unrelated Regressions	Goldberger Chapter 30 Greene Chapter 14
V. Maximum Likelihood Estimation	
Theory	Goldberger Chapter 12 Greene Chapter 17
Examples	Goldberger Chapters 19, 13 Greene Chapters 17, 21, 22
VI. Topics	J-STOR Papers

**COLORADO STATE UNIVERSITY
DEPARTMENT OF AGRICULTURAL & RESOURCE ECONOMICS**

Survey

**Agricultural & Resource Economics / Economics 635
Econometric Theory I**

Spring 2008

Name: _____

Department and Degree Sought: _____

Time in Program: _____

Previous Course Work (List graduate or highest level undergraduate courses):

Agricultural Economics: _____

Economics: _____

Statistics: _____

Mathematics: _____

List statistical and spreadsheet software with which you are familiar:
