Course Description: The course will continue from ECON 5350, covering topics such as heteroscedasticity, serial correlation, panel data, simultaneous equations, and limited-dependent variable models.

Course Prerequisites: ECON 5350 or its equivalent.

Primary Text: *Econometric Analysis* by William H. Greene (7th edition)

Course Objectives: The primary objective of this sequence is to offer an advanced introduction to econometric theory and practice. Upon completion of this two-course sequence you should be able to (i) comprehend most of the applied econometrics found in scholarly journals and (ii) initiate applied econometric analysis within your own research program.

Course Requirements:

- **Computer Software Package.** We will be using GAUSS extensively throughout the course. GAUSS is a matrix-based language that is extremely flexible and allows the user to directly program routines that are often unobserved in "black-box" software packages.

- **Examinations.** There will be one comprehensive final exam.

- **Problem Sets.** There will be a total of 10 problem sets, which will be made available on our class webpage. The due date will be clearly printed at the top of each assignment. No late assignments will be accepted. Collaborative work is encouraged; however, each student is required to turn in an independently composed set of answers.

- **Presentations.** All students are required to give an in-class presentation on a select topic. Students will be paired up; one student presenting the theory, the other presenting an application. Further details on the presentations will be given later in the semester.
Grading: Examinations and problem sets will be weighted as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Problem Sets</td>
<td>100 pts</td>
<td>33.3%</td>
</tr>
<tr>
<td>Presentation</td>
<td>50 pts</td>
<td>16.7%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>150 pts</td>
<td>50%</td>
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</tbody>
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Attendance Policy: Attendance is not mandatory but expected.

Academic Dishonesty:
UNIREG 802, Revision 2, defines academic dishonesty as “an act attempted or performed which misrepresents one’s involvement in an academic task in any way, or permits another student to misrepresent the latter’s involvement by assisting the misrepresentation.” Academic dishonesty will not be tolerated in this class; any instances will be referred to the university’s established procedure for judging such cases, with severe penalties as found appropriate.

Disclaimer:
Subsequent changes may be made to any aspect or detail of this Syllabus if and when necessary. Any changes will be announced in class as soon as practical.

Course Outline (tentative):

Chapter 9. Heteroscedasticity
Chapter 20. Serial Correlation
Chapter 11. Panel Data
Chapter 10. Systems of Equations
Chapter 13. GMM
Chapters 20-21. Introduction to Time Series Data
Chapters 17-19. Limited and Qualitative-Dependent Variables