Class meeting time and place: 2pm-3:15pm TR, Friday 381
Instructor: Artie Zillante
Office location and phone: 219B Friday, (704) 687-7589
Office hours: 12:30pm-2pm TR and by appointment
e-mail: azillant@uncc.edu
Web-site: http://belkcollegeofbusiness.uncc.edu/azillant/

Course Description

The focus of the course will be on game theoretic analysis and the experimental methodology which can be used to test game theoretic models. The primary topics in game theory covered will be static games with complete information (normal form games), dynamic games with complete information (extensive form games), static games with incomplete information (Bayesian equilibria), and dynamic games with incomplete information (signaling games). Many topics will be introduced by way of an economic experiment, and the experiment will be followed by a rigorous analysis of the game theoretic solution to the game, as well as a discussion of how the experiment and theory differ.

Course Objectives

By the end of the course, students should:
1. Be familiar with the fundamental solution concepts of game theory
2. Be able to use the solution concepts in analyzing strategic situations that differ in the timing of the players’ moves and the amount of information available
3. Be able to design laboratory economic experiments to test theoretical predictions of game theory
4. Be able to detect the limitations of game theoretic predictions
5. Be able to distinguish well designed economic experiments from poorly designed ones
6. Be able to suggest how experimental methods may be beneficial to policy makers

Web-site

The website is http://belkcollegeofbusiness.uncc.edu/azillant/gtexphomepage.html. This link will take you directly to materials for this course. From this site you may obtain a copy of the course syllabus, a course calendar that will be updated after every lecture, lecture outlines, and problem sets. Other materials may be added during the semester.
Grading

Grades for the course will be based on a series of 6 problem sets, 2 exams and a final project. Exams each count for 30% of the final grade, as does the final project, and homework assignments will count for a cumulative amount of 10% of the final grade. Grades are determined as follows:

85%-100% – A  
70%-84% – B  
55%-69% – C  
0%-54% – U

Books and Materials

Required:


Supplemental texts and articles are listed throughout the syllabus.

Tentative Course Outline

**Week 1:** Introduction to models


**Weeks 2-3:** Static Games of Complete Information  
*Gibbons, Ch. 1*


**Weeks 4-5:** Dynamic Games of Complete Information  
*Gibbons, Ch. 2*


**Weeks 6-7: Static Games of Incomplete Information**

*Gibbons, Ch. 3


**Weeks 8-9: Dynamic Games of Incomplete Information**

*Gibbons, Ch. 4

**Weeks 10-12: Designing and Running Experiments**

*Friedman and Cassar, Ch. 2-7

Smith, V. “An Experimental Study of Competitive Market Behavior” *Journal of Political Economy* 70 (1962) 111-137. Also, see Errata on pages 322-323 of the next issue of the journal.


**Weeks 13-16: Papers on how experiments inform economic theory**


**Attendance**

Attendance is not required, but given the rigorous nature of the course it is suggested that students attend all lectures. It will be particularly beneficial if you attend on the days of the experiments.

**Academic Integrity**

Students have the responsibility to know and observe the requirements of The UNC Charlotte Code of Student Academic Integrity (Catalog, page 275). This code forbids cheating, fabrication, or falsification of information, multiple submission of academic work, plagiarism, abuse of academic materials, and complicity in academic dishonesty. Any special requirements or permission regarding academic integrity in this course will be stated by the instructor and are binding on the students. Academic evaluations include a judgment that the student’s work is free from academic dishonesty of any type; and grades in this course therefore should be and will be adversely affected by academic dishonesty. Students who violate the code can be expelled from UNC Charlotte. The normal penalty for a first offense is zero credit on the work involving dishonesty and further substantial reduction of the course grade. In almost all cases the course grade is reduced to F. Copies of the code can be obtained from the Dean of Students Office. Standards of academic integrity will be enforced in this course. Students are expected to report cases of academic dishonesty to the instructor.

The Belk College of Business strives to create an inclusive academic climate in which the dignity of all individuals is respected and maintained. Therefore, we celebrate diversity that includes, but is not limited to ability/disability, age, culture, ethnicity, gender, language, race, religion, sexual orientation, and socio-economic status.