Economics 4340/7340: Game Theory
Fall 2007

Instructor: Oksana Loginova, 333 Professional Bldg, 882-4229, loginovaomissouri.edu
Office Hours: Tues/Fri 8:30-10:00am
Class Time and Location: Tue/Thurs 12:30-1:45pm, 235 Arts and Sciences

Course Description: This course is an introduction to the theory of games, a set of tools
used widely in economics to study situations in which decision-makers (consumers, firms,
politicians, governments, etc.) interact. The course introduces the basic theory, empha-
sizing the concepts. A variety of applications will be discussed, mostly in economics,
but also in other disciplines.


Course Requirements and Grading: There will be a number of homework assignments,
two midterm exams (September 18, October 23) and a final exam (December 10, 10:30am-
12:30pm). All exams are of the problem-solving type. Your grades will depend on your
performance on the homework assignments (15%), the midterm exams (25% each) and
the final exam (35%).

Make-Up Exams: Make-up exams will generally not be given. A request for alternative ar-
rangements must be in writing and must be accompanied by appropriate documentation
for not taking the scheduled exam.

Academic Honesty: The MU policy on academic honesty will be strictly implemented. Any
academic dishonest action will be reported to the university.

Disabilities: If you have special needs as addressed by the Americans with Disabilities Act
and need assistance, please notify the Office of Disability Services, A048 Brady Com-
mans, 882-4696. Reasonable efforts will be made to accommodate your special needs.

Major Topics:

1. Concepts and Techniques (Chapters 3–8)
   - sequential-move games
   - simultaneous-move games
   - pure and mixed strategies

2. Classes of Games and Strategies (Chapters 9, 11, 12)
   - signaling
   - repeated games
   - collective action

3. Applications (Chapters 15, 17)
   - voting
   - bargaining