

# Syllabus: Econ 705-I: Spring 2016

Course:	Economics 705-I (Intro to Game Theory)
Instructor:	Prof Curtis Taylor.
Time:	Tuesday and Thursday, 1:25–2:40.
Location:	SS136.
Office:	SS315.
Phone:	919.660.1827.
Email:	curtis.taylor@duke.edu.
Econ PhD students Office Hours:	Thursday 3:00–5:00 or by appointment.
All other students Office Hours:	Tuesday 3:00–5:00 or by appointment.
Econ PHD TA:	Ben Heebsh (benjamin.heebsh@duke.edu).
Non-Econ PHD TA:	Josh Jacobs (joshua.jacobs@duke.edu).
Exam:	Friday, Feb. 26, 4:00–7:00 PM in <b>SS139</b> .

The texts for this half of the course are *Microeconomic Theory* by Mas-Colell, Whinston, and Green (Micro) and *Game Theory for Applied Economists* by Gibbons (Games). Other useful books include: *A Course in Game Theory* by Osborne and Rubinstein, *Game Theory* by Fudenberg and Tirole, *The Economics of Contracts: A Primer* by Salanie, and *Auction Theory* by Krishna. I have posted lecture notes on Sakai so that you can follow along during the lectures. Please print the notes when they are posted and bring them to class.

Your grade will be determined by aggregating your performance on the exams for each half of the course. Problem sets for the first half will be collected but not graded unless a student is on the boundary between two grades at the end of the term in which case his/her problem sets may be reviewed to determine the final course grade. So that all students have equal access, the answers to all problem sets used in previous years will be posted on Sakai. You are *strongly* encouraged to attempt the problem sets without first consulting the answers.

## Lectures and Reading Schedule

TOPIC	DATES	MICRO	GAMES	NOTES
Bayesian Games	Jan. 14	8.E	3.1	lec11
Monopolistic Screening	Jan. 19	14.C, 23.B	3.2, 3.3	lec12
PS7 due	Jan. 20			
Implimentation via Menues	Jan. 21	14.C, 23.B	3.2, 3.3	lec12
Ex Post Private Information	Jan. 26	23D–E	none	lec13
PS8 Due	Jan. 27			
Intro to Auction Theory	Jan. 28	none	3.2	lec14
Equivalent and Optimal Auctions	Feb. 2	23F	none	lec15
PS9 Due	Feb. 3			
The (simple) VCG Mechanism	Feb. 4	23C	none	lec16
Adverse Selection	Feb. 9	13.A, 13.D	none	lec17
PS10 due	Feb. 10			
Dynamic Bayesian Games	Feb. 11	7.C	4.1, 4.3	Lec18
Signaling	Feb. 16	13.C	4.2	lec18
PS11 Due	Feb. 17			
Dynamic Screening	Feb. 18	none	4.3B	lec20
Reputation	Feb. 23	none	4.3C	lec 21
PS12 Due	Feb. 24			
Exam	Feb. 26 4:00–7:00 PM in SS139			