Intermediate Microeconomics: Econ 2101 (01&02)

The Subject. This course goes beyond Microeconomic Principles by treating some topics more rigorously and covering additional topics. The course has three goals: 1) develop analytic concepts and tools used in various micro-oriented economics courses (such as industrial organization, international trade, labor economics, and public finance); 2) convey a unified way of thinking about economic issues — specify the relevant objectives and constraints facing economic agents, and their resulting optimal choices; and 3) help understand when a laissez-faire market economy works well, and other circumstances where government intervention may potentially improve performance.

Prerequisites & Mathematical Requirements. Micro Principles and Calculus 1 (Math 035) are prerequisites. The textbook has a mathematical appendix covering the relevant math, and I will post 1-2 additional math review items. A few calculus rules are used repeatedly, so get comfortable with them.

Course Requirements & Weight in Overall Grade:

Item		Weight	Date	
Exercises		15%	almost v	veekly
Mid-Term 1	(in ICC 103)	20%	Oct 3	Tuesday, regular class time
Mid-Term 2	(in ICC 103)	25%	Nov 2	Thursday, regular class time
Final	(room TBA)	40%	01 (2pm	class) - Dec13 W 4-6; 02 - Dec15 F 12:30-2:30

The Exercises reinforce and extend your understanding of the material. Feel free to work in groups, but write your answers individually. Exercises turned in after the due date will get no credit, but we will drop your scores on the lowest three exercises.

- There will be *no make-up exams*. If you miss a mid-term, its weight will be shifted proportionately to the remaining exam(s).
- In exceptional cases, I will give credit for class participation.
- My grade distribution tracks the Economics Department's guidelines broadly (*but not slavishly*). (For intermediate level courses: 50% of the class A/A-, 45% B+ to B-, 5% C or below.)

Honor Code. A student found to have violated the Georgetown Honor Code will receive a grade of F, in addition to any penalties imposed by the Honor Council: http://gervaseprograms.georgetown.edu/honor/ The exams are 'closed book' — mobile devices and notes are *not allowed* during exams.

Lectures & Recitations. Attending lectures is "an offer you can't refuse"—my exam questions are mainly based on lectures, and it's far more efficient to absorb the material from lectures than trying to reconstruct it from someone else's notes or the book. You will also be enrolled in a recitation that meets once a week for 50 minutes, taught by a knowledgeable TA who will review the exercises, answer your questions on material from lectures, and present additional material. Attending recitations is strongly recommended.

Readings. The required textbook is: David Besanko and Ronald Braeutigam, *Microeconomics*, 5th Ed., Wiley 2014 ("BB"). To better track the lectures, read only the assigned page #s. (The 6th edition is not worth the extra cost.) All other items and announcements will be posted on **Canvas**.

Note: (#) at right indicates approximate number of classes for that topic.

0.	Introduction and Math Review: on your own and in recitations early in the course	(0)
	 BB ch. 1 (pp. 1-20) – analyzing economic problems Math Review slides (1-43) or BB Mathematical Appendix (pp. 739-41, 744-55). <i>Note</i>: the handout "Math for 101" lists the specific math topics and corresponding slides/ 	pages
CON	NSUMER DECISIONS	(10)
1.	Consumer Preferences: Indifference Curves and Utility Functions BB ch. 3	(3)
2.	Affordable Bundles: Linear Budget Constraint and Extensions BB ch. 4.1: pp. 105-112; pp. 133-4 – quantity discounts	(1)
3.	Consumer's Optimal Choice: Interior vs. Corner Solutions BB ch. 4.2: pp. 112-122	(1.5)
4.	Applications	(0.5)
	BB ch. 4.3: pp. 123-8 – restricted vs. unrestricted aid; joining a club BB ch. 4.4: pp. 134-9 – revealed preference	
5.	Substitution & Income Effects of Change in Price, and Consumer as Potential Seller	(3)
	 BB ch. 5.2: pp. 164-175 – substitution and income effects; ch. 5.6: pp. 195-8 – CPI bias BB ch. 5.5: pp. 189-195 – labor supply BB ch. 4.3: pp. 128-132 – borrowing vs. lending (and MS note, Intertemporal Choice) BB ch. 4, Appendix 2: pp. 146-151 – discounting & present value (<i>in recitations</i>) 	
6.	Demand Curve and Consumer Surplus	(1)
	 BB ch. 5.1: pp. 152-64 – deriving individual's demand curve BB ch. 5.4: pp. 184-6 – market demand BB ch. 5.3: pp. 175-7 – consumer surplus (pp. 174-84 are optional – compensating & equivalent variations) 	
PRC	DDUCER DECISIONS	(2)
7.	Production: Technology, Input Mix for Cost Minimization, Cost Curves	(1)
	 BB ch. 6: pp. 204-8, 214-23 – production functions, convex isoquants, MRTS BB ch. 7: pp. 257-62 – isocost lines, cost minimization (long run) BB ch. 7: pp. 273-77– costs in short run (<i>in recitations</i>) M. Schwartz notes: Production and Costs in Short Run (5 pp – review of Micro 001) 	
8.	Profit-Maximizing Output Level, Competitive Firm's Supply Curve, Producer Surplus	(1)
	BB ch. 9: pp. 338-40, 343-9 – competitive firm's short-run supply curve BB ch. 9: pp. 349-53 – short-run market supply curve and competitive equilibrium BB ch. 9: pp. 377-9 – producer surplus	

ECO	DNOMIC EFFICIENCY & COMPETITIVE EQUILIBRIUM	(4)
9.	 Partial Equilibrium: Market Efficiency and Distortionary Government Interventions BB ch. 10: pp. 392-394 – efficiency of competitive equilibrium (will add class notes) BB ch. 10: pp. 394-404 – taxes & subsidies BB ch. 10: pp. 405-417 – price controls; pp. 417-21 – output quotas BB ch. 10: pp. 426-435 – import quotas & tariffs 	(3)
10.	General Equilibrium: Pure Exchange Economy	(1)
	BB ch. 16: pp. 675-82 – Edgeworth box, efficient allocations, competitive equilibrium	
EXT	ERNALITIES & PUBLIC GOODS	(2)
11.	Externalities: Potential Inefficiencies, Government Interventions, Private Solutions BB ch. 17: pp. 703-28	(1.5)
12.	Public Goods: Efficient Level and Free Rider Incentive BB ch. 17: pp. 728-33	(0.5)
UNC	CERTAINTY AND ASYMMETRIC INFORMATION	(4)
13.	Uncertainty	
	BB ch. 15.1-15.3: pp. 610-27 – describing & evaluating risky outcomes, insurance demar	ıd
14.	Asymmetric Information: Inefficiencies from Adverse Selection and Moral Hazard	
	BB ch. 15.3: pp. 627-33 – asymmetric information in insurance markets M. Schwartz, 'Lemons': Adverse Selection and Contraction of Trade	
DEP	ARTURES FROM PRICE-TAKING BEHAVIOR	(4)
15.	Monopoly	(1.75)
	BB ch. 11.1-11.3: pp. 442-60 – single-price monopoly; 11.5-11.6: pp. 473-75 – welfare BB ch. 12.1, 12.2: pp. 491-98 – price discriminating monopoly (introduction & perfect di ch. 12.4: pp. 505-11 – direct discrimination, linear prices; (I'll discuss indirect disc'n	effects sc'n); in class)
16.	Oligopoly	(0.75)
	BB ch. 13.2: pp. 537-40 - homogeneous-products: Cournot competition	
17.	Introduction to Game Theory and Strategic Behavior	(1.5)
	BB ch. 14.1: pp. 577-586 – one-shot games, dominant strategies, Nash equilibrium BB ch. 14.3: pp. 594-600 – sequential games and value of strategic commitments	

BB ch. 14.2: pp. 588-593 – repeated games