ECON 400 A01 Advanced Microeconomic theory Course Outline – Fall 2024 (CRN 11131)

UVic Land Acknowledgement

We acknowledge and respect the L² u |ru(Songhees and Esquimalt) Peoples on whose territory the university stands, and the Lk² u |106647 /TT5 BEG 342479 0 TD (Tf .479 0 Tf .461183 02-0 7.5<017/TT6 1 Tf .479ea0TD (k)Tj /TT5 12

E-Mail rondeau@uvic.ca Lectures: MT 11:30-12-5@LE A330 O 8ce Hours Wednesdays 1:00 – 3:00 by appointment

Course Content

This course presents an advanced treatment of consumer theory and of the focunstaries for the need to develop theorecal methods and a formalize (modeling) of individual preferences and choices. This will allow us to restate the main results of consumer theory (previously seen in lower level courses), point out their formal theorecal origins and empirical implications.

The objective of the course is to expose students to the process of formal economics studies and theory development, principally by witing through the complete development of consumer demand theory, from basic axioms on preferences to the statement of empirically testable empirical preditions. We will explore the origins of concepts introduced in lower level microeconomics courses and pursue a deeper understanding of their implisator consumer behavior and demand systems. Although the majoric of the course is consumer demand and behavior, it is important to keep in mind that our principal objec is primarily methodological, proceeding through the formal process of developing a consistent economic theory. As such, the course has a strong methodological component.

It is important to emphasize that this is a course on theory, and that the level of discussion will be advanced (hence the name of the cours the should be prepared for an exhaus mathema cal treatment and analysis of consumer choices. Pre-requisites are sets and are not normally waived.

Lecture Topics

- Mathematical preliminariesSets, Functions and Optimization
 G&R Mathematical Appendices
- 2. Consumer Theory (G&R Ch. 1,2,3, and possibly 4)
 - 2.1 Basic Axioms of Preferences and Choices
 - 2.2 Preferences and Existence of Utility Functions
 - 2.3 The Consumer's Utility Maximization Problem
 - 2.4 Indirect Utility and Marshallian Demand
 - 2.5 The Consumer's Expenditure Minimization Problem
 - 2.6 Expenditure Functions and Hicksian Demand
 - 2.7 Duality and Equilibrium Equivalence
 - 2.8 Consumer Surplus Measures therrotation of Benefit Cost Analysis
 - 2.9 Slutsky Matrix and heoretical Predictions
- 3. Choice under uncertainty (G&R Ch. 17 and 19)
 - 3.1 Axioms of Choice under Uncertainty
 - 3.2 Expected Utility Functions
 - 3.3 Risk Preferences
 - 3.4 Risk and Insurance
- 4. Game theory and mechanisdesign (as time allows)

Learning Outcomes

At the end of the course, successful students will be able to

Derive the entire classicaonsumer theory problem Identify the role that each aix of consumer theory plays the resulting properties of consumer choices and resulting demand system Critique the theory State how the theory can be empirically tested Explain the formal links between consumeeding and the foundation of Benefit Cost

Analysis

Perform basic calculations of welfare changesulting from policies in all four Hicksian dimensions

State the axioms of chice under uncertainty

Identify the limitations of expected utility theory

Compute optimal choices under uncertainty under variety of senarios (insurance, investment, etc)

Course prerequisites

ECON 313; ECON 350. Pre-retusisaire not normally waved.

Notes and Textbook and Brightspace

The course Brightspace site will be populated with extensive lecture notes that will form the core of the course. In the past, I have not adstatudents to purchase a standard text, mainly because this course covers a small poor of the material typically presented in a book at this level and it seemed wasteful to ask students to purchase a methematics. However, my preferred text for this course:

Hugh Gravelle and Ray Release Reconcises, Third Eddin. Pearson Educion, Harlow, England, 2004.

It is one of the more accessible advanced monitextbooks. It will also be a long line reference book if you go on to do graduate work in econics. It is recommended that you obtain a copy (note, it is easy topind!!!).

This material is also covered in all advanced microeconomics texts and stude http://www.useful to consult any of the references below for accelent presentation of the course material.

Jehle, G.A. and P. Reny, Advanced **Meico**nomic Theory - 2nd Edition. (2000) Silverberg, E., the Structure of Economic Mathematical Analysis. (1990) Varian, H.R., Microeconomic Analysis, edition. (1992) Kreps, D., Microeconomics (1990)

Brightspace

The lecture notes, asasignments, phase exams and other course material will all be posted in Brightspace. Bedents are expected to be fully fundonal with the system.

All announcements will be posted Brightspace Students are advised to check it frequently.

Grading

Grading Scheme

The course grade is determined as follo **(Psrovide a summary of the techniques to be used to assess students**' performance in the course and how assignments, tests and other course work will be evaluated. Provide a breakdown indicag the weight assigned to each part of the course. Include any compulsory a @ndance/par'cipa \overline{on} requirements]

FOURor FIVEhomework assignments for a total of	20%
ONEin-person midterm exam Thursday October 24	30%
Final Exam (Date to be set by registrar)	50%

Mandatory/Essenial Course Components

All exams are esseval course requirements, meaning, they must be anpted in order to pass the course. Note that esseval course requirements are deferrable, the al exam is considered esseval and thus deferrable by drein yon.

Assignments are not considered esse hourse components. This means that failure to complete assignments will only result in a grade of zero on the assignment and not trigger a N (incomplete) grade. Assignments are not deferrable and must therefore be completed by the required date.

Grading Scale

A+	А	A-	B+	В	B-	C+	C	D	For
90-100	85-89	80-84	77-79	73-76	70-72	65-69	60-64	50-59	0-49

Students should review the University's more detaitednmary of grading

Missing Assessments

Should students encounter a situan where they miss an exam ormat submit an assignment at its due date, they may qualify for an academic concession. Students are required to indicate the speci

Review of an assigned grade Sexualized violence prevention and response Students with a disability Term assignments and debarment from examinations Travel plans Waitlists

The following policies are explicitly included because of their importance:

Waitlist Policies

Instructors have no discretion to admit wait**bs** students or raise the cap on the course. Students on the waitlist should discuss with **the**tructor how to ensure they are not behind with coursework in the event they are admitted.

Registered students who do not participate as specified in this outline during the first 7 calendar days from the start of the course ay be dropped from the course.

Registered students who decide not to take theurse are responsible for dropping the course and are urged to do so promptly out oburtesy toward waitlisted students.

Waitlist offers cease after the last date for addicourses irrespective of published waitlists.

Academic Integrity

Academic integrity requires commitment to the values of honesty, trust, fairness, respect, and responsibility. Students are expected to observe the same standards of scholarly integrity as their academic and professional counterparts. A student who is found to have engaged in unethical academic behaviour, including the praces described in the lolicy on Academic Integrity the University Calendar, is subject to penalty by the University.

Review What is Plagiaris for the depni Yon of plagiarism. Note: Subread work may be checked using plagiarism detexion solware.

Student Code of Conduct

The Humanies, Science, and Social Sciences Pasulave adopted thistudent code of conduct Please, review.

University Policies

University Calendar - Sectiomformation for all students"

Equity statement

various supportive program through the Vic Global Community Initiative cluding a Mentorship Program and Conversation Partner Program.