

University of Toronto (Winter 2017/8)

Topics in Behavioural Economics (ECO422/3140H1S) Syllabus

Instructor:

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Contact:

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Office hours:

Tuesday 14:00-15:00 or coordinate by e-mail.

Course time and location:

Tuesday: 9:00-11:00, Ramsay Wright Laboratories (25 Harbord Street) room 143. This may change – I will keep you posted.

Additional lessons/tutorials: Monday 17:00-19:00 (RW143) – will be coordinated in advance.

TA:

Chris Dobronyi

Email: christopher.dobronyi@mail.utoronto.ca

Grading:

25% class presentation (in a group of three students, at least one undergraduate) on selected papers (20-30 minutes long). Some of the discussion should be critical (at least 5 minutes).

25% individual referee report (up to 3 pages) on a single paper in the reading list. May be presented in the class after feedback (10-15 minutes presentation). Report due February 13.

50% summary report on one topic in the list, or application of behavioural methods to other fields: standard model, evidence, survey of existing literature, limitations/problems, proposed plan of investigation (could be theoretical, experimental, or both), conjectures. Could be done in pairs, but at least one undergraduate student. Topic selected by February 27. Report due by March 27

Generally, there will be a late penalty: 3% (of the final grade) for the first day, 1% for each additional day. Late submissions of more than a week will not be accepted, and a grade of 0% will be recorded for this assignment. Failure to submit the final report (including submission that is more than a week late) will result in failing the course. If you anticipate being late for a justifiable reason – please notify me as soon as possible.

Religious accommodation

As a student at the University of Toronto, you are part of a diverse community that welcomes and includes students and faculty from a wide range of backgrounds, cultural traditions, and spiritual beliefs. For my part, I will make every reasonable effort to avoid scheduling tests, examinations, or other compulsory activities on religious holy days not captured by statutory holidays. Further to University Policy, if you anticipate being absent from class or missing a major course activity (like a test, or in-class assignment) due to a religious observance, please let me know as early in the course as possible, and with sufficient notice (at least two to three weeks), so that we can work together to make alternate arrangements.

Learning Disability Accommodation Requirement

Students with diverse learning styles and needs are welcome in this course. If you have an acute or ongoing disability issue or accommodation need, you should register with Accessibility Services (AS) (accessibility.utoronto.ca) at the beginning of the academic year. Without registration, you will not be able to verify your situation with your instructors, and instructors will not be advised about your accommodation needs. AS will assess your medical situation, develop an accommodation plan with you, and support you in requesting accommodation for your course work. Remember that the process of accommodation is private: AS will not share details of your condition with any instructor, and your instructors will not reveal that you are registered with AS.

Academic Integrity

All students, faculty and staff are expected to follow the University's guidelines and policies on academic integrity. For students, this means following the standards of academic honesty when writing assignments, collaborating with fellow students, and writing tests and exams. Ensure that the work you submit for grading represents your own honest efforts. Plagiarism—representing someone else's work as your own or submitting work that you have previously submitted for marks in another class or program—is a serious offence that can result in sanctions. Speak to me or your TA for advice on anything that you find unclear. To learn more about how to cite and use source material appropriately and for other writing support, see the U of T writing support website at www.writing.utoronto.ca/. Consult the Code of Behaviour on Academic Matters for a complete outline of the University's policy and expectations. For more information, please see <http://www.artsci.utoronto.ca/osai> and <http://academicintegrity.utoronto.ca/>

Specific Medical Circumstances

If you become ill and it affects your ability to do your academic work, consult me right away. Normally, I will ask you for medical documentation in support of your specific medical circumstances. The University's Verification of Student Illness or Injury (VOI) form is recommended because it indicates the impact and severity of the illness, while protecting your privacy about the details of the nature of the illness. You can submit a different form (like a letter from the doctor), as long as it is an original document, and it contains the same information as the VOI. For more information, please see

<http://www.illnessverification.utoronto.ca/> If you get a concussion, break your hand, or suffer some other acute injury, you should register with Accessibility Services as soon as possible.

Accommodation for Personal Reasons

There may be times when you are unable to complete course work on time due to non-medical reasons. If you have concerns, speak to me. It is also a very good idea to speak with an advisor in your College Registrars office; they can support you in requesting extensions or accommodations, and importantly, connect you with other resources on campus for help with your situation.

Blackboard info

This course uses the University's learning management system, Blackboard Learn, to post information about the course. This includes materials required to complete class activities and course assignments as well as share important announcements and updates. The site is dynamic and new information and resources will be posted regularly as we move through the term. The principal source of information about all course-related work will be the course site in Blackboard, so please make it a habit to log in to the site on a regular if not daily basis. To access the course website, go to the U of T Portal log-in page at <http://portal.utoronto.ca> and log in using your UTORid and password. Once you have logged in to the Portal using your UTORid and password, look for the "My Courses" module where you will find a link to the ECO422/3140 course site. Note that if you are currently enrolled in other courses at the University, your other course links will also appear here. Click on the ECON422/3140 link to open our course area and view the latest announcements and updates, and access your course resources. SPECIAL NOTE ABOUT GRADES POSTED ONLINE: Please note that any grades posted within the Blackboard Grade Centre are posted for your information only, so you can view and track your progress through the course. No grades are considered official, included any posted in Blackboard at any point in the term, until they have been formally approved by me at the end of the course. Please contact me as soon as possible if you think there is an error in any grade posted on blackboard.

Cell phone and laptop use

Technology can support student learning, but it can also become a distraction. Research indicates that multi-tasking (texting, surfing the Internet, using social networks) during class time can have a negative impact on learning (Clapp, Rubens, Sabharwal & Gazzaley, 2011; Ellis, Daniels, Jauregui, 2010; Hembrooke & Gay, 2003). Out of respect for your fellow learners in this class, please refrain from using laptops or mobile phones for entertainment during class and do not display any material on a laptop which may be distracting or offensive to your fellow students. Laptops may be used only for legitimate classroom purposes, such as taking notes, downloading course information from Portal, or working on an assigned in-class exercise. Checking social media, email, texting, games, and surfing the Web are not legitimate classroom purposes. Such inappropriate laptop and mobile phone use is distracting to those seated around you.

Participation

This course is built on your participation. Please make all efforts to attend all classes and actively participate in the discussion. In our structured and unstructured discussions and dialogues, we will have

many opportunities to explore challenging issues and increase our understandings of different perspectives. A positive learning environment relies upon creating an atmosphere where diverse perspectives can be expressed. Each student is encouraged to take an active part in class discussions and activities. Honest and respectful dialogue is expected. Disagreement and challenging of ideas in a supportive and sensitive manner is encouraged. Hostility and disrespectful behaviour is not acceptable. In the time we share together over this term, please honour the uniqueness of your fellow classmates and appreciate the opportunity we have to learn from each other. Please respect each others' opinions and refrain from personal attacks or demeaning comments of any kind. Just as we expect others to listen attentively to our own views, we must reciprocate and listen to others when they speak, most especially when we disagree with them. In this class, our emphasis will be on engaging in the mutual exploration of issues as presented in the course readings as scholars, rather than in defending points of view we have formed outside the classroom.

Course Description:

Behavioral economists study models of human decision making and the interaction among such decision makers in games and markets. As behavioral economists aspire to construct "realistic" models, many of the models are inspired by Psychological and experimental studies.

We will cover the following topics: individual choices under risk and uncertainty; intertemporal choice; other-regarding preferences; bounded rationality in individual decision-making and games; measuring rationality; Procedural rationality; Neuroeconomics/non-choice data, and the mindless-economics debate.

Learning Outcomes:

- Understand the flexibility and limitations of the economic approach to modeling behaviour.
- Know how to use existing behavioural models to understand new economic phenomena.
- Know to design experiments to evaluate a proposed behavioural model.
- Know to evaluate research in Economics and disciplines related to behavioural research.
- Be able to pose a novel research question, design plan to investigate it and conjecture how to answer it.

Pre-requisites:

Students enrolled in this course are either 4th year majors in Economics or MA/MFE students. If you are not sure if you have the pre-requisites, do not hesitate to consult me.

Papers:

Prospect Theory:

- Kahneman and Tversky, "Prospect Theory: an Analysis of Decision under Risk", *Econometrica*, 1979
- Tversky and Kahneman, "Advances in Prospect Theory: Cumulative Representation of Uncertainty", *Journal of Risk and Uncertainty*, 1992
- Amos Tversky and Daniel Kahneman, "Loss Aversion in Riskless Choice: A Reference-Dependent Model" *The Quarterly Journal of Economics* Vol. 106, No. 4 (Nov., 1991), pp. 1039-1061
- Kahneman, Knetsch and Thaler, "Experimental Tests of the Endowment Effect and the Coase Theorem", *JPE*, 98 (6), 1990, 1325-1348
- Plott and Zeiler, "The Willingness to Pay-Willingness to Accept Gap, the 'Endowment Effect,' Subject Misconceptions, and Experimental Procedures for Eliciting Valuations", *AER*, 95 (3), 2005, 530-545
- Plott and Zeiler, "Exchange Asymmetries Incorrectly Interpreted as Evidence of Endowment Effect Theory and Prospect Theory?" *AER*, 97(4), 2007, 1449-1466.
- Koszegi and Rabin, *Quarterly Journal of Economics*, 2006
- Rabin, "Risk Aversion and Expected Utility Theory: A Calibration Theorem", *Econometrica*, 2000
- Rabin and Thaler, "Anomalies: Risk Aversion", *Journal of Economic Perspectives*, 2001

NEU under Risk:

- Machina (*JEP*, 1987)

Ambiguity:

- Ellsberg, "Risk Ambiguity and the Savage Axioms", *Quarterly Journal of Economics*, 1961
- Fox and Tversky, "Ambiguity Aversion and Comparative Ignorance", *Quarterly Journal of Economics*, 1995
- Halevy and Feltkamp, "A Bayesian Approach to Uncertainty Aversion", *Review of Economic Studies*, 2005
- Halevy, "Ellsberg Revisited: An Experimental Study", *Econometrica*, 2007
- Epstein and Halevy, "Ambiguous Correlation," *Review of Economic Studies* (forthcoming)

Time Preference and Self Control:

Survey:

- Frederick, Loewenstein and O'Donoghue, "Time Discounting and Time Preference: A Critical Review", *Journal of Economic Literature*, 2002

Applications of Quasi-hyperbolic Discounting:

- Laibson, "Golden Eggs and Hyperbolic Discounting", *Quarterly Journal of Economics*, 1997

- O'Donoghue and Rabin, "Doing It Now or Later", *American Economic Review*, 1999

Rubinstein's Critique:

- Rubinstein, "A theorist's view of experiments", *European Economic Review*, 2001
- Rubinstein, "Economics and Psychology? The Case of Hyperbolic Discounting", *International Economic Review*, 2003

Time and Risk:

- Halevy, "Strotz meets Allais: Diminishing Impatience and the Certainty Effect", *American Economic Review*, 2008

Dual-Self:

- Thaler and Shafrin, "An Economic Theory of Self-Control", *JPE* 1981

Experimental Papers:

- Andersen Harrison Lau Rutstrom (ECMA 2008)
- Andreoni Sprenger Estimating Time Preference (AER 2012)
 - Chakraborty, Calford, Fenig and Halevy (Experimental Economics, 2017)
- Andreoni and Sprenger Risk Preferences are not Time Preferences (AER 2012)
 - Cheung (AER 2015)
 - Epper and Fehr-Duda (AER 2015)
 - Miao and Zhong (AER 2015)
- Halevy, Time Consistency: Stationarity and Time Invariance (ECMA 2015)
- Augenblick, Niederle and Sprenger, (QJE 2015)

Other-Regarding Preferences:

- Rabin, "Incorporating Fairness into Game Theory and Economics", *American Economic Review*, 1993
- Levine, "Modeling Altruism and Spitefulness in Experiments", *Review of Economic Dynamics*, 1998
- Fehr and Schmidt, "A Theory of Fairness Competition and Cooperation", *Quarterly Journal of Economics*, 1999
- Binmore and Shaked, "Experimental Economics: Where next?", *Journal of Economic Behavior and Organization*, 2010
- Fehr and Schmidt, "The Economics of Fairness, Reciprocity and Altruism – Experimental Evidence and New Theories", in: *Handbook of the Economics of Giving, Altruism and Reciprocity*, vol 1, 2006

Measures of Choice Consistency

- Andreoni and Miller, "Giving according to GARP: an experimental test of the consistency of preferences for altruism", *ECMA*, 70 (2), 737-753, 2002.

- Choi, Kariv, Muller, Silverman, “Who is (More) Rational?” *AER*, 104 (6), 1518-1550, 2014
- Halevy, Persitz and Zrill, “Parametric Recoverability of Preferences”, *JPE* (forthcoming)

Level-k Thinking:

- Nagel, “Unraveling in Guessing Games: An Experimental Study”, *American Economic Review*, 1995
- Camerer, Ho, Chong, “A Cognitive Hierarchy Model of Games”, *Quarterly Journal of Economics*, 2004
- Wang, Spezio, Camerer, “Pinocchio’s Pupil: Using Eyetracking and Pupil Dilation to Understand Truth-telling in Deception in Sender-Receiver Games”, *American Economic Review*, 2010
- Alaoui and Penta (REStud, 2016)
- Kneeland, Terri, “Identifying Higher-Order Rationality” (ECMA 2015)

Replication:

- Camerer *et al* *Science*, 2016

Critique:

- Rubinstein, “Dilemmas of an Economic Theorist”, *Econometrica*, 2006
- Rubinstein, “Discussion of ‘Behavioral Economics’” in *Advances in Economics and Econometrics, Theory and Applications*, ninth World Congress of the Econometric Society
- Gul and Pesendorfer, “The Case for Mindless Economics”
- Al Roth’s critique page:
<http://web.stanford.edu/~alroth/critiques%20of%20experimental%20econ.html>