



Course Outline

Course Code	RSM 341 H1 S
Course Name	Model-Based Decision Making
Term, Year	Winter 2026
Course Meets	Friday 11:00 AM – 1:00 PM, WO 25
Web page URL	https://q.utoronto.ca

Instructor Details

Instructor Name	Email	Office Hours	Location
Byung Soo *Lee*	byungsoo.lee@utoronto.ca	By appointment	RT 8068 or Zoom (see course web page for link)

Course Description

The course explores fundamental paradigms of modeling the world for the purpose of making decisions in uncertain circumstances. The goal is to become a user, not an abuser, of models by developing facility with key mathematical frameworks and the philosophical understanding behind them. Major coverage is given to logically disciplined approaches to decision-making under uncertainty.

Learning Outcomes

By the end of this course, students will be able to:

- Define key decision theoretic concepts and identify them.
- Model real-life choices as bets whose consequences are contingent on uncertain events.
- Develop a framework for decision making under uncertainty in ways that enforce intellectual discipline and internal consistency.
- Develop a mental mode of how others choose.

Course Prerequisites

Completion of 9.0 credits, ECO204Y1 / ECO206Y1, ECO220Y1 / ECO227Y1/(STA220H1, STA255H1) / (STA237H1, STA238H1) / (STA257H1, STA261H1)

Course Materials

Required Readings

Jeffrey, Richard. The Logic of Decision. United Kingdom: University of Chicago Press, 1990.

Evaluation and Grades

Grades are a measure of the knowledge and skills developed by a student within individual courses. Each student will receive a grade on the basis of how well they have command of the course materials, skills

and learning objectives of the course.

%	Assessment	Due Date
20%	Quiz	Jan 30
20%	Quiz	Feb 13
20%	Quiz	Mar 27
40%	Group Project	Apr 6

Course Format and Expectations

Writing Assignments or Presentations

The In-class Presentation and Group Project are intended to help you develop your communication skills. How well you communicate your ideas, in writing or orally, will be considered in the evaluation of the assignment. In your written assignments, you should aim for clarity, strong organization, concision, professionalism, and correct grammar. Your presentations should reflect strong planning and organization, clarity of speech, and an engaging demeanour. Sources, whether in written or presentation assignments, should always be correctly attributed.

Support is available through the RC Centre for Professional Skills (CPS) for students who would like help or feedback on their writing or speaking (presentations). CPS offers both individual and group appointments with trained writing instructors and presentation coaches who are familiar with the RC program and common types of business assignments. You can also access your college Writing Centres for help with written assignments.

You can book an appointment [with a writing or presentation coach](#) through the RC Centre for Professional Skills Writing Centre. For more information about writing centres, student supports, and study resources, see the [Writing and Presentation Coaching academic support page](#).

Team or Group Assignments

The In-class Presentation and Group Project require students to work in teams of 3–5. Learning to work together in teams is a crucial transferrable skill you will use not only in your coursework, but also in your future careers. Support is available if you encounter common teamwork challenges such as:

- Team members feeling left out of the team.
- Team members not responding in a timely manner to communication.
- Division or quality of work among team members being unequal or unfair.

Consult the [Centre for Professional Skills Teamwork Resources page](#) for tips, strategies, and best practices. You can also [book an appointment with a teamwork mentor](#) through the RC Centre for Professional Skills Writing Centre or by emailing rotmancommerce.teamworkhelp@utoronto.ca. Teamwork mentors can help you resolve or mitigate conflict, strategize on planning, or improve team communication.

Rotman Commerce Attendance Policy

Rotman Commerce students are expected to make every effort to attend each class. Infrequently, students may miss term work, e.g., quizzes, assignments, etc., due to unplanned and extenuating circumstances and must follow the Request for Special Consideration process as outlined in their course outlines. However, Rotman Commerce will not approve any Request for Special Consideration for participation marks for missed classes. Any such request will be denied.

Missed Tests and Assignments

Students who miss a term test or assignment for reasons entirely beyond their control (e.g. illness) may request special consideration **within 2 business days** of the missed midterm/test/assignment due date.

In such cases, students must:

1. Complete the Request for Special Consideration form: <https://uoft.me/RSMConsideration>
2. Provide documentation to support the request, eg. Absence Declaration from [ACORN](#), [Verification of Illness Form](#) etc.

Please note: Students may use the Absence Declaration on ACORN ***one time per term*** to report an absence and request consideration. **Any subsequent absence will require a Verification of Illness form or other similar relevant documentation.**

Students who do not submit their requests and documentation within 2 days may receive a grade of 0 (zero) on the missed course deliverable. INSERT detailed instructions on how student's marks will be handled, for example: a make-up test or re-weighting of another deliverable/test (note that no single essay, test, etc., should have a value of more than 80% of the grade).

Final Exams: If you miss the final exam in this course for a legitimate reason (illness, etc) you will need to contact your College Registrar to file a petition for a deferred exam. This deferred exam will be written at a later date as established by the Faculty of Arts & Science. Instructions can be found here: <https://www.artsci.utoronto.ca/current/faculty-registrar/petitions-appeals/preparing-petition>

Late Assignments

All assignments are due on the date and at the time specified in Quercus. Late submissions will not be accepted.

Statement on Equity, Diversity and Inclusion

The University of Toronto is committed to equity, human rights and respect for diversity. All members of the learning environment in this course should strive to create an atmosphere of mutual respect where all members of our community can express themselves, engage with each other, and respect one another's differences. U of T does not condone discrimination or harassment against any persons or communities.

Commitment to Accessibility

The University is committed to inclusivity and accessibility, and strives to provide support for, and facilitate the accommodation of, individuals with disabilities so that all may share the same level of access to opportunities and activities offered at the University.

If you require accommodations for a temporary or ongoing disability or health concern, or have any accessibility concerns about the course, the classroom or course materials, please [email Accessibility Services](#) or visit the [Accessibility Services website](#) for more information as soon as possible. Obtaining your accommodation letter may take up to several weeks, so get in touch with them as soon as possible. If you have general questions or concerns about the accessibility of this course, you are encouraged to reach out to your instructor, course coordinator, or Accessibility Services.

Generative AI / ChatGPT

Students may use artificial intelligence tools, including generative AI, in this course as learning aids or to help produce assignments. However, students are ultimately accountable for the work they submit.

Students may choose to use generative artificial intelligence tools as they work through the assignments in this course; this use must be documented in an appendix for each assignment. The documentation should include what tool(s) were used, how they were used, and how the results from the AI were incorporated into the submitted work.

Academic Integrity

Academic Integrity is a fundamental value essential to the pursuit of learning and scholarship at the University of Toronto. Participating honestly, respectfully, responsibly, and fairly in this academic community ensures that the U of T degree that you earn will continue to be valued and respected as a true signifier of a student's individual work and academic achievement. As a result, the University treats cases of academic misconduct very seriously.

The University of Toronto's Code of Behaviour on Academic Matters outlines the behaviours that constitute academic misconduct, the process for addressing academic offences and the penalties that may be imposed. You are expected to be familiar with the contents of this document. Potential offences include, but are not limited to:

In papers and assignments

- Using someone else's ideas or words without appropriate acknowledgement.
- Submitting your own work in more than one course without the permission of the instructor.
- Making up sources or facts.
- Obtaining or providing unauthorized assistance on any assignment (this includes collaborating with others on assignments that are supposed to be completed individually).

On test and exams

- Using or possessing any unauthorized aid, including a cell phone.
- Looking at someone else's answers.
- Misrepresenting your identity.
- Submitting an altered test for re-grading.

Misrepresentation

- Falsifying institutional documents or grades.
- Falsifying or altering any documentation required by the University, including (but not limited to) medical notes.

All suspected cases of academic dishonesty will be investigated by the procedures outlined in the *Code of Behaviour on Academic Matters*. If you have any questions about what is or is not permitted in the course, please do not hesitate to contact the course instructor. If you have any questions about appropriate research and citation methods, you are expected to seek out additional information from the instructor or other U of T or RC resources such as the RC Centre for Professional Skills, the College Writing Centres or the Academic Success Centre.

Email

At times, the course instructor may decide to communicate important course information by email. As such, all U of T students are required to have a valid UTmail+ email address. You are responsible for ensuring that your UTmail+ email address is set up and properly entered on ACORN. For more information visit the [Information Commons Help Desk](#).

Forwarding your utoronto.ca email to a Gmail or other type of email account is not advisable. In some cases, messages from utoronto.ca addresses sent to Gmail accounts are filtered as junk mail, which means that important messages from your course instructor may end up in your spam or junk mail folder.

Recording Lectures

Lectures and course materials prepared by the instructor are considered by the University to be an instructor's intellectual property covered by the Canadian Copyright Act. Students wishing to record a lecture or other course material in any way are required to ask the instructor's explicit permission and may not do so unless permission is granted. Students who have been previously granted permission to record lectures as an accommodation for a disability are excepted. This includes tape recording, filming, photographing PowerPoint slides, Quercus materials, etc.

If permission for recording is granted by the instructor (or via Accessibility Services), it is intended for the individual student's own study purposes and does not include permission to "publish" them in any way. It is forbidden for a student to publish an instructor's notes to a website or sell them in any other form without formal permission.

Weekly Schedule

Session	Date	Topic	Readings
1	Jan 9	Introduction to course	Syllabus
2	Jan 16	Rational choice as preference	See Quercus
3	Jan 23	Frequentist probability	See Quercus
4	Jan 30	Personalist probability	See Quercus
5	Feb 6	On the definitions of states	See Quercus
6	Feb 13	Knightian uncertainty and risk	See Quercus
–	Feb 20	No Class — Reading Week	–
7	Feb 27	Value of information	See Quercus
8	Mar 6	Prospect theory	See Quercus
9	Mar 13	Group decisions and the wisdom of crowds	See Quercus
10	Mar 20	Strategic decision making	See Quercus
11	Mar 27	Heuristics and biases	See Quercus

Session	Date	Topic	Readings
–	Apr 3	No Class — Good Friday	–
12	Apr 6	Group Project Due	–

Note: Please note that the last day you can drop this course without academic penalty is Monday, March 16, 2026

Other Useful Links

- [Become a volunteer note taker](#)
- [Accessibility Services Note Taking Support](#)
- [Credit / No-Credit in RSM courses](#)
- [Rotman Commerce Academic Support](#)
- [Where to find teaching assistant opportunities](#)

URL links for print

- ACORN: <http://www.acorn.utoronto.ca/>
- Email Accessibility Services: accessibility.services@utoronto.ca
- Accessibility Services website: <http://studentlife.utoronto.ca/as>
- University's Plagiarism Detection Tool FAQ: <https://uoft.me/pdt-faq>
- The University of Toronto's Code of Behaviour on Academic Matters: <http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>
- Information Commons Help Desk: <http://help.ic.utoronto.ca/category/3/utmail.html>
- Become a volunteer note taker: <https://studentlife.utoronto.ca/program/volunteer-note-taking/>
- Accessibility Services Note Taking Support: <https://studentlife.utoronto.ca/service/note-taking-support/>
- Credit / No-Credit in RSM courses: <https://rotmancommerce.utoronto.ca/current-students/degree-requirements/credit-no-credit-option/>
- Rotman Commerce Academic Support: <https://rotmancommerce.utoronto.ca/current-students/academic-support/>
- Book an appointment with a writing or presentation coach: <http://uoft.me/writingcentres>
- Writing and Presentation Coaching academic support page: <https://rotmancommerce.utoronto.ca/current-students/academic-support/writing-and-presentation-coaching/>
- Centre for Professional Skills Teamwork Resources page: <https://rotmancommerce.utoronto.ca/teamwork-resources>
- Book an appointment with a Teamwork Mentor: <http://uoft.me/writingcentres>