



C710

**Interdisciplinary Perspectives on Health Economics and Evaluation
Winter 2026 Course Outline**

**Health Policy and Management
DeGroote School of Business
McMaster University**

COURSE OBJECTIVE

The objective of this course is to equip students with the practical knowledge of economic principles needed to apply them in health technology assessment, with a particular focus on the evaluation of pharmaceutical products by Canadian public and private payers.

INSTRUCTOR AND CONTACT INFORMATION

Tuhin Maity, Ph.D.

Instructor

maityt@mcmaster.ca

Student TA

TBD

Course website: <https://degroote.mcmaster.ca>

COURSE ELEMENTS

| | | | |
|---------------------|------------------|-----------------|-----------------------|
| Credit Value: 3 | Leadership: Yes | IT skills: No | Global view: Yes |
| Avenue: Yes | Ethics: No | Numeracy: Yes | Written skills: Yes |
| Participation: Yes | Innovation: Yes | Group work: Yes | Oral skills: Yes |
| Evidence-based: Yes | Experiential: No | Final Exam: No | Guest speaker(s): Yes |

COURSE DESCRIPTION

This course explores the application of economic principles to policy-relevant questions in health and healthcare. Topics may include, but are not limited to, applied health economics, the demand and supply of healthcare and insurance, economic evaluation of health technologies and programs (pharmaceuticals, devices, etc.), cost-effectiveness, cost-utility, and cost-benefit analyses, and strategies to improve value-for-money in the health sector.

The course will be delivered primarily in person through a combination of lectures, guest speakers, discussions, research projects, and presentations. Lectures will serve as a foundation for class discussions and the starting point of the course deliverables. Class time may also include interactive activities designed to illustrate key topics and issues, fostering deeper understanding through engagement and discussion.

LEARNING OUTCOMES

The objective of this course is to enable the students with the working knowledge of economic principles to apply them in situations that encompass access and policy related to healthcare. Some specific examples of such roles are:

- Market access associate/manager in a pharma company
- Market access associate/manager in a consulting company
- Reimbursement associate/manager in a public/private payer organization
- Health policy analyst within F/P/T governments

REQUIRED COURSE MATERIALS AND READINGS

Avenue registration for course content, readings and case materials <http://avenue.mcmaster.ca>

OPTIONAL COURSE MATERIALS AND READINGS

M. Drummond, et al, Methods for the Economic Evaluation of Health Care Programmes, 4th edition", Oxford Medical Publications (2015) (Paperback - \$110.00 on Amazon)

EVALUATION

Learning in this course results to a large degree from in-class/on-line discussion and participation of comprehensive economic evaluation lectures and cases as well as out-of-class analysis. The balance of the learning results from related readings, and from researching your presentations, and projects. Work will be evaluated on both an individual and group basis. In group work members will share the same grade adjusted by peer evaluation. Your final grade will be calculated as follows:

Components and Weights

| | | |
|-----------------------|--------------------------------------|-------------|
| BIA project | Specific topic (Individual) | 20% |
| Brief critique | Based on recent HE lit. (individual) | 15% |
| CUA project | Initial plan (group) | 10% |
| CUA project | Final presentation (group) | 25% |
| CUA project | Final report (group) | 15% |
| Participation | In-class Contribution (individual) | 15% |
| Total | | 100% |

Grade Conversion

Instructors have the discretion of marking individual components of a course with either a letter or numerical grading scheme but final course grades taken at McMaster can only be reported as either Pass/Fail or letter grades. When numerical grading is used in a course, the final course average with decimal place of 0.5 or greater should be rounded up before conversion to a letter grade. The minimum passing grade for a graduate student in any course taken is a B-, including undergraduate courses or courses taken off campus:

| LETTER GRADE | PERCENT | POINTS |
|--------------|---------|--------|
| A+ | 90-100 | 12 |
| A | 85-89 | 11 |
| A- | 80-84 | 10 |
| B+ | 75-79 | 9 |
| B | 70-74 | 8 |
| B- | 60-69 | 7 |
| F | 00-59 | 0 |

Course Deliverables

Group BIA project

Students are expected to submit a BIA model using in Excel format. Detailed instruction will be provided in the class and an Excel BIA template will be made available to work on (students will need to modify it as appropriate). It is worth **20%** of your final grade and will be marked individually.

Midterm critique

Student teams will critique a recently published health economics article. It is worth **15%** of your final grade and will be marked individually.

CUA Project – Initial plan

Each team is required to present their one-page plan for the CUA. Detailed description of the one-page plan will be provided during class. It is worth **10%** of your final grade and will be marked for the group.

CUA Project – Class presentation

Building upon the initial plan, student teams will submit their final excel model and defend the analysis in class. It is worth **25%** of your final grade and will be marked for the group.

CUA Project – Final submission

Student teams will submit their final report incorporating any discussions during the presentation. It is worth **15%** of your final grade and will be marked for the group.



COMMUNICATION AND FEEDBACK

Students that are uncomfortable in directly approaching an instructor regarding a course concern may send a confidential and anonymous email to the respective Area Chair or Associate Dean:

<http://mbastudent.degroote.mcmaster.ca/contact/anonymous/>

Students who wish to correspond with instructors or TAs directly via email must send messages that originate from their official McMaster University email account. This protects the confidentiality and sensitivity of information as well as confirms the identity of the student. Emails regarding course issues should NOT be sent to the Administrative Assistant.

Instructors are encouraged to conduct an informal course review with students by Week #4 to allow time for modifications in curriculum delivery. Instructors should provide evaluation feedback for at least 10% of the final grade to students prior to Week #8 in the term.

ACADEMIC INTEGRITY

You are expected to exhibit honesty and use ethical behaviour in all aspects of the learning process. Academic credentials you earn are rooted in principles of honesty and academic integrity.

Academic dishonesty is to knowingly act or fail to act in a way that results or could result in unearned academic credit or advantage. This behaviour can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: "Grade of F assigned for academic dishonesty"), and/or suspension or expulsion from the university.

It is your responsibility to understand what constitutes academic dishonesty. For information on the various types of academic dishonesty please refer to the Academic Integrity Policy, located at:

www.mcmaster.ca/academicintegrity

Students are responsible for being aware of and demonstrating behaviour that is honest and ethical in their academic work. Such behaviour includes:

- following the expectations articulated by instructors for referencing sources of information and for group work;

- asking for clarification of expectations as necessary;
- identifying testing situations that may allow copying;
- preventing their work from being used by others (e.g., protecting access to computer files); and adhering to the principles of academic integrity when conducting and reporting research.

AUTHENTICITY/PLAGIARISM DETECTION

Some courses may use a web-based service (Turnitin.com) to reveal authenticity and ownership of student submitted work. For courses using such software, students will be expected to submit their work electronically either directly to Turnitin.com or via an online learning platform (e.g. A2L, etc.) using plagiarism detection (a service supported by Turnitin.com) so it can be checked for academic dishonesty.

Students who do not wish their work to be submitted through the plagiarism detection software must inform the Instructor before the assignment is due. No penalty will be assigned to a student who does not submit work to the plagiarism detection software.

All submitted work is subject to normal verification that standards of academic integrity have been upheld (e.g., on-line search, other software, etc.). For more details about McMaster's use of Turnitin.com please go to www.mcmaster.ca/academicintegrity.

COURSES WITH AN ONLINE ELEMENT

All courses use some online elements (e.g. e-mail, Avenue to Learn (A2L), LearnLink, web pages, capa, Moodle, ThinkingCap, etc.). Students should be aware that, when they access the electronic components of a course using these elements, private information such as first and last names, user names for the McMaster e-mail accounts, and program affiliation may become apparent to all other students in the same course.

Students may be required to use the Respondus LockDown Browser and Respondus Monitor. The Respondus LockDown Browser is a downloadable program that allows a student to take an Avenue to Learn quiz in a secure environment. Quizzes can be set to use LockDown Browser or LockDown Browser.

For more details about McMaster's use of Respondus Lockdown Browser please go to <https://avenuehelp.mcmaster.ca/exec/respondus-lockdown-browser-and-respondus-monitor/>



The available information is dependent on the technology used. Continuation in a course that uses online elements will be deemed consent to this disclosure. If you have any questions or concerns about such disclosure, please discuss this with the course instructor.

ONLINE PROCTORING

Some courses may use online proctoring software for tests and exams. This software may require students to turn on their video camera, present identification, monitor and record their computer activities, and/or lock/restrict their browser or other applications/software during tests or exams. This software may be required to be installed before the test/exam begins.

CONDUCT EXPECTATIONS

As a McMaster student, you have the right to experience, and the responsibility to demonstrate, respectful and dignified interactions within all of our living, learning and working communities. These expectations are described in the [Code of Student Rights & Responsibilities](#) (the “Code”). All students share the responsibility of maintaining a positive environment for the academic and personal growth of all McMaster community members, **whether in person or online**.

It is essential that students be mindful of their interactions online, as the Code remains in effect in virtual learning environments. The Code applies to any interactions that adversely affect, disrupt, or interfere with reasonable participation in University activities. Student disruptions or behaviours that interfere with university functions on online platforms (e.g. use of Avenue 2 Learn, WebEx, Teams, or Zoom for delivery), will be taken very seriously and will be investigated. Outcomes may include restriction or removal of the involved students’ access to these platforms.

ATTENDANCE

Arriving late or missing class disrupts the learning experience for both you and your peers. Punctuality and attendance are crucial to maintaining a respectful, professional and productive environment for everyone, including our faculty.



Instructors may use Top Hat in their course in a variety of ways, including to capture attendance in their classes. Attendance is recorded by submitting a unique 4-digit code displayed in your physical classroom using your personal device.

MISSED ACADEMIC WORK

Missed Mid-Term Examinations / Tests / Class Participation

Please do not use the online [McMaster Student Absence Form \(MSAF\)](#) as this is for Undergraduate students only. The MBA program will not accept an MSAF.

When students miss regularly scheduled term work which contributes 10% or more to the final grade, for legitimate reasons as determined by the DSB Student Services – Academic Office (DSSAO (DSB Student Services Academic Office)), the activity necessary to compensate for the missed work will be determined by the course instructor. The compensatory activities assigned will vary with the nature of the course and the missed requirement. They include, but are not restricted to, an alternative assignment, a rescheduled midterm exam, or re-weighting the marks for the missed component to other mark components. Documentation explaining such missed work must be provided to the DSSAO (DSB Student Services Academic Office) within five (5) working days of the scheduled date for completion of the work.

Acceptable reasons for missed work, along with the [Petition for Missed Term Work](#) and the [MBA Student McMaster University Student Health Certificate](#), can be found on the DeGroote MBA Student website (mbastudent.degroote.mcmaster.ca). Please direct any questions about acceptable documentation to the MBA Academic Advisors (askmba@mcmaster.ca).

University policy states that a student may submit a maximum of three (3) [Petition for Missed Term Work](#) per academic year, after which the student must meet with the Director of the program.

If term work is missed without an approved reason, students will receive a grade of zero (0) for that component.

Missed Final Examinations

Students must be available for the duration of the posted exam period regardless of their personal exam schedule. This is to ensure student availability throughout the entire exam period in the event that an exam must be rescheduled due to unforeseen circumstances (university closure, power outage, storm policy, etc.). A student who misses a final examination without valid reason will receive a mark of 0 on the examination.

Students who have missed a final exam for a valid reason can apply to the DSSAO (DSB Student Services Academic Office) to write a deferred examination by submitting an [Application for Deferring](#)



[a Final Exam](#) with supporting documentation. The application must be made within five days of the scheduled exam.

The [Application for Deferring a Final Exam](#) and the [MBA Student McMaster University Student Health Certificate](#) can be found on the DeGroote MBA Current Student website (mbastudent.degroote.mcmaster.ca)

Deferred examination privileges, if granted, are normally satisfied during the examination period at the end of the following semester. In select cases, the deferred examination may be written at a time facilitated by the DSSAO (DSB Student Services Academic Office) (DSB Student Services Academic Office) and agreed to by the course instructor.

Requests for a second deferral or rescheduling of a deferred examination will not be considered.

ACADEMIC ACCOMMODATION FOR STUDENTS WITH DISABILITIES

Student Accessibility Services (SAS) offers various support services for students with disabilities. Students are required to inform SAS of accommodation needs for course work at the outset of term. Students must forward a copy of such SAS accommodation to the instructor normally, within the first three (3) weeks of classes by setting up an appointment with the instructor. If a student with a disability chooses NOT to take advantage of an SAS accommodation and chooses to sit for a regular exam, a petition for relief may not be filed after the examination is complete. The SAS website is:

<http://sas.mcmaster.ca>

Use of Test Accommodations at McMaster University Burlington Campus Ron Joyce Centre

Whereas Student Accessibility Services (SAS), on Main Campus, determines all MBA student accommodations, the MBA Faculty Office manages the coordination of accommodations for tests, midterms, and exams at the Ron Joyce Centre in Burlington.

Process for Students

- SAS will now be using our online system, MySAS Portal, for graduate students to share accommodation letters with their Instructors and their Faculty/Program. Students will be responsible to activate their accommodations on a term-by-term basis and the approved accommodation letter will be directly sent to the Instructor.
- Students must engage the DSSAO (DSB Student Services Academic Office) to implement their accommodation(s) (e.g., extra-time, memory aid, etc.) for each upcoming test, midterm, or exam, at least two weeks in advance. Students can do this by emailing DeGroote MBA SAS scheduling office at DSBSAS@mcmaster.ca. If a student cannot meet this deadline, they



should contact DSBSAS@mcmaster.ca to discuss alternative arrangements. The program is committed to exploring flexibilities where possible to support students.

- All tests, midterms, and exams are booked synchronously with the class's start time. Any deviations from the start time (e.g. start earlier than the class to enable completion at the same end time) requires a discussion with their instructor on protocol at the time of accommodation activation.
- Students will leverage the accommodation (e.g., extra-time, memory aid, etc.), in a designated testing room. Rooms will be booked according to the student's SAS accommodation. Unless the accommodation states otherwise, students should expect that they will be writing in a room with other students. One or more invigilators will always be in the room.
- Following the request to implement the accommodation(s), dsbsas@mcmaster.ca will reach out to the student with their test, midterm, or exam details, including the date, time, and room number. As there may be other students writing tests in the room, we ask that students enter the room quietly and leave all personal items at the front of the room.

All policies and procedures, including restroom access, how extra-time is allocated for assessments under Universal Design, and the submission of memory aids in advance, are consistent with those of SAS on Main Campus. The only variance in procedure is communication around, and physical location of, assessment. There is not a dedicated testing space at RJC. Existing classrooms and lecture halls will be used for most testing. All SAS-approved accommodations will be honoured by our staff; however, core testing elements are not eliminated in alternative testing formats. Students should expect and plan for invigilation, incidental noise, and other potential distractions.

ACADEMIC ACCOMMODATION FOR RELIGIOUS, INDIGENOUS OR SPIRITUAL OBSERVANCES (RISO)

Students requiring academic accommodation based on religious, indigenous or spiritual observances should follow the procedures set out in the [RISO](#) policy. Students should submit their request to the SEAO (Student Experience Academic Office) ***normally within 10 working days*** of the beginning of term in which they anticipate a need for accommodation. Students should also contact their instructors as soon as possible to make alternative arrangements for classes, assignments, and tests.

COPYRIGHT AND RECORDING



Students are advised that lectures, demonstrations, performances, and any other course material provided by an instructor include copyright protected works. The Copyright Act and copyright law protect every original literary, dramatic, musical and artistic work, **including lectures** by University instructors.

The recording of lectures, tutorials, or other methods of instruction may occur during a course. Recording may be done by either the instructor for the purpose of authorized distribution, or by a student for the purpose of personal study. Students should be aware that their voice and/or image may be recorded by others during the class. Please speak with the instructor if this is a concern for you.

POTENTIAL MODIFICATION TO THE COURSE

The instructor and university reserve the right to modify elements of the course during the term. The university may change the dates and deadlines for any or all courses in extreme circumstances. If either type of modification becomes necessary, reasonable notice and communication with the students will be given with explanation and the opportunity to comment on changes. It is the responsibility of the student to check their McMaster email and course websites weekly during the term and to note any changes.

RESEARCH USING HUMAN SUBJECTS

ONLY IF APPLICABLE

Research involving human participants is premised on a fundamental moral commitment to advancing human welfare, knowledge, and understanding. As a research-intensive institution, McMaster University shares this commitment in its promotion of responsible research. The fundamental imperative of research involving human participation is respect for human dignity and well-being. To this end, the University endorses the ethical principles cited in the Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans:

<http://www.pre.ethics.gc.ca>

McMaster University has mandated its Research Ethics Boards to ensure that all research investigations involving human participants are in compliance with the Tri-Council Policy Statement. The University is committed, through its Research Ethics Boards, to assisting the research community in identifying and addressing ethical issues inherent in research, recognizing that all members of the University share a commitment to maintaining the highest possible standards in research involving humans.

If you are conducting original research, it is vital that you behave in an ethical manner. For example, everyone you speak to must be made aware of your reasons for eliciting their responses and consent to providing information. Furthermore, you must ensure everyone understands that participation is entirely voluntary. Please refer to the following website for more information about McMaster University's research ethics guidelines:

<http://reo.mcmaster.ca/>

Organizations that you are working with are likely to prefer that some information be treated as confidential. Ensure that you clarify the status of all information that you receive from your client. You **MUST** respect this request and cannot present this information in class or communicate it in any form, nor can you discuss it outside your group. Furthermore, you must continue to respect this confidentiality even after the course is over.

ACKNOWLEDGEMENT OF COURSE POLICIES

Your registration and continuous participation (e.g. on A2L, in the classroom, etc.) to the various learning activities of C710 will be considered to be an implicit acknowledgement of the course policies outlined above, or of any other that may be announced during lecture and/or on A2L. **It is your responsibility to read this course outline, to familiarize yourself with the course policies and to act accordingly.**

Lack of awareness of the course policies **cannot be invoked** at any point during this course for failure to meet them. It is your responsibility to ask for clarification on any policies that you do not understand.

ARTIFICIAL INTELLIGENCE

In many professional settings, the ability to use AI tools effectively and responsibly is an essential skill. Therefore, the use of AI in this course is not inherently prohibited. However, there may be specific activities, assignments, or assessments where AI use would conflict with the learning objectives. In such cases, the instructor will clearly indicate when AI tools should not be used, and students are expected to comply with these directions.

COURSE SCHEDULE

C710
**Principles and Applied Methods in Health Economics and Health
Technology Assessment**
Fall 2025
Tentative schedule, subject to change

| WEEK | DATE | TOPIC/ASSIGNMENT |
|------|---------------|--|
| 1 | Jan 7, 2026 | <ul style="list-style-type: none"> Introduction, course outline, quick review of the Canadian health care system, and intro to economic principles |
| 2 | Jan 14, 2026 | <ul style="list-style-type: none"> Markets and healthcare markets. Health Insurance and health insurance markets, and government intervention in health care insurance BIA overview |
| 3 | Jan 21, 2026 | <ul style="list-style-type: none"> Demand for health and utility maximization. Technology assessment and basics of economic evaluation |
| 4 | Jan 28, 2026 | <ul style="list-style-type: none"> Cost minimization, cost consequence, cost effectiveness, and cost benefit analyses, with case studies BIA due before class today Critique articles identified |
| 5 | Feb 4, 2026 | <ul style="list-style-type: none"> TM travelling – no class |
| 6 | Feb 11, 2026 | <ul style="list-style-type: none"> Costing methodologies and challenges, & discussion of trials versus models. |
| 7 | Feb 18, 2026 | <ul style="list-style-type: none"> Mid-term recess |
| 8 | Feb 25, 2026 | <ul style="list-style-type: none"> Quality of life and cost utility analysis, with case studies Critique article due |
| 9 | Mar 4, 2026 | <ul style="list-style-type: none"> Decision analysis and modeling Final project groups are formed. |
| 10 | Mar 11, 2026 | <ul style="list-style-type: none"> Methods for dealing with uncertainty Project outline is due |
| 11 | Mar 18, 2026 | <ul style="list-style-type: none"> Wrapping it all – an end-to-end example |
| 12 | Mar 25, 2026 | <ul style="list-style-type: none"> Meeting with TM, troubleshooting |
| 13 | April 1, 2026 | <ul style="list-style-type: none"> Final presentation |
| 14 | April 8, 2026 | <ul style="list-style-type: none"> Final report |