

ITM 900 – Capstone Project

COURSE OUTLINE FOR 2026-2027

Semester, Section
Classroom, Class Time

Prerequisite(s): ITM 415 and ITM 500 and ITM 618 and ITM 707 and ITM 750 and (ITM 820 or ITM 210)

Faculty/Contract Lecturer Information

- **Faculty/Contract Lecturer Name:**
- **Office Location:**
- **Office Hours:**
- **Phone:** (416) 979 – 5000, ext.
- **Course Website:** my.torontomu.ca
- **Email Address:**

Mode of Course Delivery: In-Class

[Academic Program Advising Contacts](#)

Chair/Director for this Course: Sameh Al Natour

Email Policy

Students are expected to monitor and retrieve messages and information sent through D2L and TMU email on a frequent and consistent basis. In accordance with the Policy on TMU Student E-mail Accounts ([Policy 157](#)), Toronto Metropolitan University (TMU) requires that any electronic communication by students to TMU faculty or staff be sent from their official university email account. Communications sent from other accounts may be disregarded.

Course Description

In the capstone project students integrate information technology and management knowledge and skills within a real-world context. Students model, analyze, design and simulate feasible information system solutions and further their understanding of effective approaches to leverage information technology in organizations by assessing risks and uncertainties in the implementation and deployment of information system

solutions. Through experiential learning, students develop business acumen and capabilities to apply information technology and management models to effectively solve business problems

Course Details

Teaching Methods

If you are registered in an in-person or a virtual classroom, instruction will take place at scheduled hours, following the approach outlined in D2L Brightspace. If you are registered in a Chang School Distance Education course, please follow the schedule, course outline and learning modules as outlined in D2L Brightspace.

Note: All assessments in this course, regardless of its delivery format, will be held in-person on campus. This applies to in-person, virtual, and online courses, including those delivered through the Chang School.

This course will incorporate the following teaching and learning methods:

- Three lectures, prescribed weekly readings based on your previous courses, group project work, and in class discussions are the main teaching activities that occur in this course.
- The group project work allows the students to apply the analytical techniques that group interaction and individual and group presentation skills.
- The instructor will establish an active learning environment by engaging the students in an exchange of relevant questions and ideas. Students should expect a frequent and substantive interaction between the instructor and students and among students in every class.

Course Materials

None

Textbook and Other Learning Materials:

None

Course Learning Outcomes

This is a semester-long project which involves integrating business processes, functions, and technologies within an enterprise solution through the function of Information Systems (IS). The focus is on the creation of functions, technologies and business processes, as part of an enterprise solution. Value creation through the integrated production and distribution of products, services, and information will be emphasized. Through this project, students will learn to apply models and frameworks, to analyze and integrate business functions, processes, and technologies and communicate solutions concisely. Students will also learn to apply business strategic management capabilities to qualify the models and frameworks being used to integrate the business functions. The project will involve a real-life client organization.

This course is a hands-on application of knowledge and skills student have acquired and developed in the BTM program. In particular, students will form a team of 5-6, and will design a feasible IT solution based on their analysis of business strategies, key business processes, and develop the solution by applying techniques in system analysis and design, database, computer programming, and security.

Upon completion of the course, students will be able to:

- Develop information systems (IS) solutions to real world problems by:
 - Identifying business opportunities and/or problems,
 - Specifying and modeling IS solution requirements
 - Identifying and modeling business processes
 - Developing the various components of IS solutions to solve business problems and/or realize identified business opportunities
- Integrate the application of information technology and management concepts and skills in an applied project. In particular, students will be able to:
 - Perform data analytics and identify issues in existing IS solutions
 - Apply business process management technique, aided with BPMN, to model, analyze and redesign business processes
 - Apply system analysis and design techniques, aided with UML, to model/analyze requirements and develop IS solution designs.
 - Apply database, system design, security, computer programming techniques to develop IS solutions
 - Apply effective project management skills
 - Demonstrate strong communication skills

Academic Integrity

Academic integrity is integral to your learning, the credibility of your degree or certification, and the integrity of the university as a whole. [Senate Policy 60: Academic Integrity](#) defines academic misconduct, provides a non-exhaustive list of examples of behaviours that may be considered as academic misconduct, and explains how academic misconduct concerns are evaluated and decided. The entirety of the policy applies in this course. As well, please note that submitting work created in whole or in part by artificial intelligence tools unless expressly permitted by the faculty/contract lecturer, is considered a violation of Policy 60.

Generative AI Course Policy, Plagiarism Detection, and Virtual Proctoring

Generative AI Course Policy

Use of Generative AI (e.g. ChatGPT, Grammarly, Perplexity, DeepL Translator) to develop or assist with any ideas or material submitted for coursework is expressly prohibited in this course. Use of Generative AI in this manner will be considered a breach of Policy 60.

Turnitin or another originality detection software

Turnitin is a plagiarism prevention and detection service to which TMU subscribes. It is a tool to assist faculty/contract lecturers in determining the similarity between students' work and the work of other students who have submitted papers to the site (at any university), internet sources, and a wide range of books, journals and other publications. While it does not contain all possible sources, it gives faculty/contract lecturers some assurance that students' work is their own. No decisions are made by the service; it generates an "originality report," which faculty/contract lecturers must evaluate to judge if something is plagiarized.

Students agree by taking this course that their written work will be subject to submission for textual similarity review to Turnitin. We strongly recommend that faculty/contract lecturers can opt to have student's papers included in TMU's institutional repository rather than the default Turnitin repository. Use of the Turnitin service is subject to the terms-of-use agreement posted on the Turnitin website. Students who do not want their work submitted to this plagiarism detection service must, by the end of the second week of class, consult with their faculty/contract lecturer to make alternate arrangements. Students who choose not to have their papers screened for textual similarity review by turnitin may be required to submit additional work with their research essay. For example:

- an annotated bibliography of each source used in your paper; and/or
- the first few pages of each cited source used in your paper

Even when a faculty/contract lecturer has not indicated that a plagiarism detection service will be used, or when a student has opted out of the plagiarism detection service, if the faculty/contract lecturer has reason to suspect that an individual piece of work has been plagiarized, the faculty/contract lecturer is permitted to submit that work in a non-identifying way to Turnitin.

Virtual Proctoring Information

Online exam(s) within this course use a virtual proctoring system. Please note that your completion of the exam will be recorded via the virtual platform and subsequently reviewed by your faculty/contract lecturer. The virtual proctoring system provides recording of flags where possible indications of suspicious behaviour are identified only. Recordings will be held for a limited period of time in order to ensure academic integrity is maintained.

Respondus Lockdown Browser with Monitor is currently the only virtual proctoring solution covered by [Policy 135: Final Examinations Policy](#). Access to a device that can support the virtual proctoring tools is your responsibility as a student; the [Student Respondus Guide](#) identifies current technical requirements, as well as additional considerations for your use including data privacy, accessibility, and how to prepare.

Please note that you will be required to show your TMU OneCard prior to beginning to write the exam. Should a student not have a OneCard, government issued ID can be displayed to the camera, showing only the picture and name (all other information can be covered by the student).

Information will be provided prior to the exam date by your faculty/contract lecturer who may provide an opportunity to test your set-up or provide additional information about online proctoring. Since videos of you and your environment will be recorded while writing the exam, please consider preparing the background (room/walls) so that personal details are not visible, or move to a room that you are comfortable showing on camera.

Copyright

The course materials provided to you are copyrighted, and may not be shared without my express written permission. Do not share these materials (e.g. course outline, lecture slides, assignment instructions) with others and do not post them on the internet during the course, or at any time after. If you do so, Policy 60 will apply.

Academic Integrity Resources

To learn more about Policy 60 and how to avoid academic misconduct, please review and take advantage of these resources:

- Policy 60: Academic Integrity: www.torontomu.ca/senate/policies/academic-integrity-policy-60/
- Academic Integrity Office website: www.torontomu.ca/academicintegrity
- “Academic Integrity in Space” game: <https://games.de.torontomu.ca/aio/#/>
- “Academic Integrity in Cyberspace!” game: <https://www.torontomu.ca/aic/#/>
- Student Life and Learning Support: www.torontomu.ca/student-life-and-learning/learning-support

If you are a student registered with Academic Accommodation Support (AAS):

Please inform your faculty/contract lecturer if you have test accommodation needs that include the use of assistive technology (including text-to-speech, dictation, or literacy software). Some software may require additional configurations by the faculty/contract lecturer, so it is important you inform them in advance and leverage the sample quiz to ensure the tools are compatible with the Brightspace Quiz in LockDown Browser.

However, not all Assistive Technology tools approved by AAS work well with Respondus' software; if your experience of the sample quiz does not function as expected, please notify your faculty/contract lecturer and/or Accommodation Facilitator.

Topics and Course Schedule

Week	Date	Topic	Due Dates
Week 1	September 11	Requirement Specification & Modeling Develop use case models for IS solution requirements	
Week 2	September 18	Process Modeling Develop BPMN models for IS solutions Apply process improvement heuristics	Weekly Update
Week 3	September 25	Data Modeling and IS solution artifacts Develop data models IS solutions Define the new IS solution architecture	Weekly Update
Week 4	October 2	In-Class Group Consultation Review group progress on the capstone project Identify and address project issues	Weekly Update
Week 5	October 9	In-Class Group Consultation Review group progress on the capstone project Identify and address project issues	Weekly Update
Week 6	October 16	Reading Week	Weekly Update
Week 7	October 23	In-Class Group Consultation Review group progress on the capstone project Identify and address project issues In-Class Midterm Exam	Weekly Update
Week 8	October 30	In-Class Group Consultation Review group progress on the capstone project Identify and address project issues	Weekly Update

Week	Date	Topic	Due Dates
Week 9	November 6	In-Class Group Consultation Review group progress on the capstone project Identify and address project issues	Weekly Update
Week 10	November 13	In-Class Group Consultation Review group progress on the capstone project Identify and address project issues	Weekly Update
Week 11	November 20	In-Class Group Consultation Review group progress on the capstone project Identify and address project issues	Weekly Update
Week 12	November 27	Capstone Project Presentations	Final Report

Evaluation

The grade for this course is composed of the mark received for each of the following components:

Evaluation Component	Due Date	Percentage of Final Grade	Anticipated Return Date
Participation In-class presence, discussions and project engagement	Every class	10%	Within a week
Individual weekly updates	Week 2-11	10%	Week 2-11
Midterm Exam	Week 7	30%	Week 7
Final Report	Week 12	50%	Week 12
Final Grade		100%	
Note: Students must achieve a course grade of at least 50% to pass this course. At least 20% of the grade based on individual work will be returned to students prior to the last date to drop a course in good academic standing. For Fall 2026 this must be before Friday, November 20, 2026 and for Winter 2027 before Friday, April 2, 2027.			

University Policies

Students must be reminded that they are required to adhere to all relevant university policies found in their online course shell in D2L and/or on [the Senate website](#).

Important Resources Available at Toronto Metropolitan University

- **Addressing Academic Concerns:** Students are expected to address any questions or concerns through open and timely communication with the course faculty/contract lecturer, as soon as they arise. If a concern cannot be resolved through this initial communication or if additional support is required, students are encouraged to reach out to their program advisor or the chair/director of the teaching department for further guidance. These individuals can help provide clarity, facilitate next steps, and ensure that matters are reviewed in a fair and appropriate manner.

- [The University Libraries](#) provide research [workshops](#) and individual consultation appointments. There is a drop-in Research Help desk on the second floor of the library, and students can use the [Library's virtual research help service](#) to speak with a librarian, or [book an appointment](#) to meet in person or online.
- [Student Life and Learning Support](#) offers group-based and individual help with writing, math, study skills, and transition support, as well as [resources and checklists to support students as online learners](#).
- You can submit an [Academic Consideration Request](#) when an extenuating circumstance has occurred that has significantly impacted your ability to fulfill an academic requirement. You may always visit the [Senate website](#) and select the blue radio button on the top right hand side entitled: Academic Consideration Request (ACR) to submit this request.

For Extenuating Circumstances, [Policy 167: Academic Consideration](#) allows for a once per semester ACR request without supporting documentation if the absence is less than 3 days in duration and is not for a final exam/final assessment. Absences more than 3 days in duration and those that involve a final exam/final assessment, always require documentation. Students must notify their faculty/contract lecturer once a request for academic consideration is submitted. See Senate [Policy 167: Academic Consideration](#).

Longer absences are not addressed through Policy 167 and should be discussed with your Chair/Director/Program to be advised on next steps.

- [FAQs Academic Considerations and Appeals](#)
- Information on Copyright:
 - [Copyright FAQs for Faculty/Contract Lecturers](#)
 - [Copyright FAQs for Students](#)
- Information on Academic Integrity:
 - [Academic Integrity for Faculty/Contract Lecturers](#)
 - [Academic Integrity for Students](#)

Accessibility

- At Toronto Metropolitan University, we are committed to ensuring that all courses are accessible to everyone and to removing barriers that may prevent some individuals from enrolling in courses.
- All technologies and tools used in this course are accessible.
- Students who discover an accessibility barrier with any of the course materials or technologies should contact their faculty/contract lecturer.
- As outlined in [Policy 159: Academic Accommodation of Students with Disabilities](#), students are required to proactively consult with AAS, the faculty/contract lecturer, Department or Faculty, as soon as feasible, including prior to enrolling in a course or program, on any concerns they may have about their ability to meet the essential academic requirements of a course/program.

Academic Accommodation Support

[Academic Accommodation Support](#) (AAS) is the university's accessibility services office, supporting students with disabilities. AAS works with students, faculty, and staff to create inclusive learning environments, reduce barriers, and promote accessibility across the university.

If you have (or suspect you may have) a disability, AAS can provide consultation, guide you through registration, develop accommodation plans where appropriate, and connect you with supports and services. For information about eligibility, documentation requirements, registration, deadlines, and available services, visit [AAS](#).

Academic Accommodations (for students with disabilities) and Academic Consideration (for short-term extenuating circumstances) are governed by **different university policies**. [Learn more about each process](#) and how to access support. Students registered with AAS may request academic consideration (related or unrelated to their disability) if they experience extenuating circumstances that impact their ability to meet their shorter term academic obligations. This includes short term physical or mental health issues that are sudden/acute (e.g, the flu), unexpected illness or injury, hospitalization or treatment, and significant aggravation of a pre-existing condition. Please see [Policy 167: Academic Consideration](#) for more information and details.

Please note that there is no accommodation for missing/rescheduling or reweighting of tests - this is considered an alternate arrangement. Any student who misses a test/exam will be directed to submit an ACR to explore if possible alternate arrangements under [Policy 167: Academic Consideration](#) can apply .

Wellbeing Support

At Toronto Metropolitan University, we recognize that things can come up throughout the term that may interfere with a student's ability to succeed in their coursework. These circumstances are outside of one's control and can have a serious impact on physical and mental well-being. Seeking help can be a challenge, especially in those times of crisis.

If you are experiencing a mental health crisis, please call 911 and go to the nearest hospital emergency room. You can also access these outside resources at anytime:

- **Distress Line:** 24/7 line for if you are in crisis, feeling suicidal or in need of emotional support (phone: 416–408–4357)
- **[Good2Talk](#):** 24/7-hour line for postsecondary students (phone: 1-866-925-5454)
- **[GuardMe Student Support Program \(GMSSP\)](#):** 24/7 access to confidential support through counsellors via the [Student Support app](#) or 1-844-451-9700

If non-crisis support is needed, you can access these campus resources:

- **[Centre for Student Development and Counselling](#):** 416-979-5195 or email csdc@torontomu.ca
- **[Consent Comes First – Office of Sexual Violence Support and Education](#):** 416-919-5000 ext 3596 or email osvse@torontomu.ca
- **[Medical Centre](#):** call (416) 979-5070 to book an appointment

We encourage all Toronto Metropolitan University community members to access available resources to ensure support is reachable. You can find more resources available through the [Toronto Metropolitan University's Wellbeing Central](#) website.