Welcoming Students to Graduate Studies
Please include your matricule number: Synchro, on the subject of all emails.
Manager and Contacts

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- Master in Computer Science Programs
  (2-175-1-0) - Segment 70 (internship or Directed Work) and Segments 71 to 76 (with a thesis)
- Doctoral Program in Computer Science
  (317510)

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- Master in Computer Science (2-175-1-0),
  segment 77 - Machine Learning
- DESS in Machine Learning (2-175-1-2)

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- Master in Computer Science Programs
  (2-175-1-0) - Segment 70 (Internship)

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- Master in Computer Science (2-175-1-0),
  segment 77 - Machine Learning
- DESS in Machine Learning (2-175-1-2)
Programmes de cycles supérieurs

La présence d'équipes de recherche actives permet au Département d'informatique et de recherche opérationnelle (DIRO) d'offrir un environnement stimulant pour entreprendre des études supérieures, quelle que soit l'orientation.

Un éventail de spécialisations s'y trouve représentées, tant en informatique qu'en recherche opérationnelle.

Le DIRO décerne annuellement près de 30 maîtrises et quelque 15 doctorats.

**Nos programmes de 2e cycle**

- Maîtrise en informatique
- Maîtrise en bio-informatique
- Maîtrise en commerce électronique
- Maîtrise en finance mathématique et computationnelle
- D.E.S.S. en finance mathématique et computationnelle

**Nos programmes de 3e cycle**

- Doctorat en informatique
- Doctorat en bio-informatique

**Perspectives d'emploi**

**Répertoire des bourses**

Des bourses pour tous les cycles

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*Department of Computer Science and Operations Research*
Web site of the Université de Montréal

https://www.umontreal.ca/
MON UdeM
General information and the web space of all institutional services. (options, messages and information)

COURRIEL ÉTUDIANT
Your email address: firstname.lastname.3@umontreal.ca

STUDIUM
A digital learning environment
Studious as Studium!!

MON CENTRE ÉTUDIANT
Your portal that gathers your personal data and allows you to carry out operations related to your academic progress. (Schedule, Grades, Invoices)
Who Does What at UDEM

Graduate and Postdoctoral Studies - ESP: Responsible for the graduate student pathway from admission to graduation. (Regulations, scholarships, pathways and mentoring.)

Faculty of Arts and Sciences - FAS: Departments and programs.

Department of Computer Science and Operations Research - DIRO: Your department. The world-class research conducted by the Department's faculty is a major attraction for students wishing to benefit from a cutting-edge environment in graduate studies.

Registrar's Office - BR: official documents attesting to the student's background (Official documents, proof of enrollment (attestation), Transcript, Student card - Opus card)

Tuition Fees - Finance Department - Cost of studies and billing - Fee calculator.

International Students Office - BEI: Verifies that each student's file complies with the requirements dictated by the Ministry of Education's verification rules and those of the immigration authorities.

Student Life Services - SVÉ: Workshops, activities and various resources offered on campus to make your student's life more enjoyable (cultural activities...).

UdeM Emergency - For any other question, you are invited to write to infocovid19@umontreal.ca or visit the info COVID-19 website. Want to receive the latest communications related to the health situation at UdeM? Subscribe to the Info COVID-19 news feed: you will receive a notification each time a new communication is published.
Other important information

Scholarships

- Consult the directory of scholarships available at the Université de Montréal: Major Scholarships for Graduate Students
- The information for the **UdeM tuition fee weaver** (UdeM Exemption de frais de scolarités) is available at the following link: https://registraire.umontreal.ca/droits-de-scolarite/bourse-exemption/ Other information link: https://admission.umontreal.ca/bourses-pour-etudiants-internationaux/
- If you have any questions about the **UdeM tuition fee weaver**, please contact them by email at: esp-bourses@esp.umontreal.ca

Graduate and Postdoctoral Studies Academic Regulations - ESP

- The **Graduate and Postdoctoral Studies Academic Regulations** are the official collection of regulations, guidelines, policies and procedures for graduate studies.

Admission and Deferral of Admission

- If you need to defer admission to the program in your chosen term, you must defer admission by following the procedure for deferring admission and complete the "ADM_Report_Trim_Admission_A22" form via the student center.

International students

- Whether you are already studying at UdeM or have just been admitted; **Renewal of CAQ and study permits**, it is still important to have your Certificat d’acceptation du Québec (CAQ) and your study permit in your possession or to start the process of obtaining them now.
- The attestation required to obtain the COOP work permit, which is necessary for international students doing an internship in Canada as part of their studies, will now be included with the notice of admission, in the case of study programs with a mandatory internship.

CAQ Renewal and Study Permits

- Request a proof of enrollment and official document via the Registrar’s Office. - Order a document.
- Request for a specific attestation - via the Registrar’s Office.
Program structure

1. Specialized Graduate Diploma (D.E.S.S.) in Machine Learning
2. Master's in computer science with thesis
3. Master's with an internship (DIRO) or Supervised essay (DIRO)
4. Master's ML with an Internship, segment 77 (Mila)
5. Ph.D. in Computer Science

**ATTENTION:** It is mandatory to respect the minimum number of credits per block. Always refer to the program structure before choosing your courses.

**IMPORTANT!** We remind you that it is your responsibility to respect the program structure. Enrollment in excess elective courses or in another program is not permitted and will be subject to deregistration.
Program structure of the Specialized Graduate Diploma (D.E.S.S.) in Machine Learning

The D.E.S.S. courses are distributed as follows: 28 mandatory credits, 12 of which are attributed to an internship, and 2 credits to option courses.

**Block 70A Foundations in Machine Learning (16 credits - mandatory)**
- IFT 6135, Representation Learning, 4 credits;
- IFT 6390, Foundations of Machine Learning, 4 credits;
- IFT 6758, Data Science, 4 credits;
- IFT 6759, Advanced Projects in Machine Learning, 4 credits.

**Block 70B Deepening Knowledge Option - Maximum 4 credits**

**Block 70C Contextualizing Knowledge (2 credits – option courses)**
- IFT 6761 – Colloque 1, 1 credit;
- IFT 6762 – Colloque 2, 1 credit.

**Bloc 70D Mandatory internship - 12 credits** (4-month internship)

See the sample pathway on the DIRO website.
Example of a Path Program
D.E.S.S. in Machine Learning

For your information, here is an example of a standard full-time pathway to complete the program in 1 year and 1 term (students admitted in the fall).

**Fall term - 1st year**
- IFT 6390 - Foundations of Machine Learning
- IFT 6758 - Data Science
- IFT 6761 - Colloque 1

**Winter Term - 1st Year**
- IFT 6135 - Representation Learning
- IFT 6759 - Advanced Projects in Machine Learning
- IFT 6762 - Colloque 2

**Summer Term - 1st Year**
- IFT 6919 - Machine Learning Short Internship
  (The IFT6919 course will be added to your schedule during your internship for one single term.)

**IMPORTANT**

The student must submit the internship report within 3 months of the end of the internship. The DESS student is therefore not registered during the writing (redaction) and the evaluation (correction) of the internship report.
You must

1. Have successfully completed all 4 required courses
2. Maintain a grade point average of 3.3/4.3
3. Apply to UdeM for admission to the M.Sc. Prof (segment 77) for the following Fall.
4. Obtain permission to transfer from the program's Graduate Studies Committee: Contact the TGDE.
5. Provide approved long term (6 months) internship registration signed by the supervisor.
6. Notify the TGDE by email to specify your withdrawal from the DESS program and allow the transfer of courses to the new program.
Master’s in Computer Science program and its various options.

**Segment 70 Specific to the general option (thesis, internship, supervised essay)**

The General Option allows students to deepen their knowledge by encouraging research and reflection in the fields of computer science and operations research. This option allows students to learn theoretical and analytical tools in computer science and operations research.

**Segment 71 Specific to the Imaging option (thesis)**

The imaging option provides students with a practical and theoretical understanding of advanced concepts related to computer graphics, special effects in film, video games, geometric modelling, image processing and 3D vision. The research paper, specialized in one of these fields or at their intersection, will allow the development of new solutions leading to scientific publications.

**Segment 72 Specific to the Artificial Intelligence option (thesis)**

The Artificial Intelligence option will develop both the theoretical and technical skills needed to create autonomous and adaptive agents or models. The student will be required to take courses related to the various aspects of this discipline (data mining, knowledge management, language processing, machine learning), and to write a thesis that may be related to the exploitation of massive data, expertise prized on the job market.

**Segment 73 Specific to the Computational Biology option (thesis)**

The Computational Biology option will interest computer scientists who wish to apply their computer and mathematical skills to problems related to the analysis and processing of biological information (DNA, RNA, proteins, metabolic networks, etc.). This option introduces the fundamental questions of computational biology and the algorithmic structures used to answer them. The student will be required to take courses related to different aspects of this discipline (structural biology, genomics, phylogeny, sequencing, etc.) and to write a thesis that aims to model a given biological problem, to develop the necessary algorithmic and mathematical tools, to test them on simulated data, before applying them to real biological data.
Master’s in Computer Science program and its various options - Continued.

Segment 74 Specific to the Theoretical and Quantum Computing option (thesis)
The Quantum and Theoretical Computing option allows a student to study computer science concepts requiring a level of abstraction typically associated with logic, combinatorics, mathematics or physics. The student will be required to take courses in areas such as cryptography, complexity and quantum computing.

Segment 75 Specific to the Programming and Software Engineering option (thesis)
The Programming and Software Engineering option allows a student to master advanced notions of programming languages and methods of analysis, design, implementation and maintenance of software. In addition to taking courses in these advanced notions, this option requires students to do original research on a subject related to programming and software engineering.

Segment 76 Specific to the Operations Research option (thesis)
The Operations Research option opens up the vast field of deterministic and stochastic optimization, with applications in transportation, energy, simulations of complex systems, etc. Courses are offered on the basics (linear, nonlinear and integer programming) as well as on more advanced topics, such as stochastic programming, dynamic programming, equilibrium models, graphs or meta-heuristics. The research work is linked to a real application and requires a computer implementation, which provides knowledge that is highly valued by the job market.

Segment 77 Specific to the Machine Learning option (Internship associated with partners of Mila)
The Machine Learning option offers a specialization in the field of machine learning that is not oriented towards research, but rather towards the acquisition of knowledge and experience necessary for the effective application of these techniques in any field. This option includes an internship in a company.
Structure of the Master’s in Computer Science program, Segment 70 - General with an internship or supervised essays.

The credits for the internship modality are distributed as follows: 22 mandatory credits for an internship and 23 credits to option courses.

The credits for the supervised essay modality are distributed as follows: 22 mandatory credits for research and the writing of two tutorials (supervised essays) and 23 credits to option courses.

The choice of courses must comply with one of the study plans specified by the Department according to the selected segment.

IMPORTANT: The 23 credits to option courses must be completed before beginning the internship or directed work.

Segment 70 Specific to the general option (thesis, internship, TD)
Example of a path
M.Sc. With an internship - Segment 70

For your information, here is an example of a standard pathway to complete the program in 2 years (student admitted in the Fall)

Fall term - 1st year

- SPT6000 - Full-time status
- IFT XXXX - option courses
- IFT XXXX - option courses
- IFT 2015 - Data Structures (complementary course according to your decision notice)

Winter Term - 1st Year

- SPT6000 - Full-time status
- IFT XXXX - option courses
- IFT XXXX - option courses
- IFT 2125 - Introduction to Algorithms (complementary course according to your decision notice)

Summer Term - 1st Year

- SPT6000 - Full-time status - Admission requirements: to complete the 3 full-time terms. And ESP regulations to have an activity (status) registered in every term.

Or

- Request for the suspension: temporary interruption in studies of the semester is possible only for Canadian and Quebec students.

- International students - you will need to receive approval from the International Student Office (BEI) to confirm that you can temporarily interrupt your studies while meeting the conditions of your study permit.
Example of a Path - Continued
M.Sc. With an internship - Segment 70

For your information, here is an example of a standard pathway to complete the program in 2 years (student admitted in the Fall).

**Fall term - 2nd year**
- SPT6000 - Full-time status
- IFT XXXX - option courses
- IFT XXXX - option courses
- Enrollment in 1 or 2 courses in block 77B to complete the 45 credits of the program (option courses)

**Winter Term - 2nd Year**
- RDC6000 – Redaction status - Beginning of the internship.

**Summer Term - 2nd Year**
- RDC6000 – Redaction status - Continuation of the internship and submission of the internship report.

Note that IFT 6916 - Internship is only recorded in your file at the time of submission of your internship report and does not contribute to your cumulative grade point average.

**IMPORTANT:**

**Registration with redaction status and registration for assessment – correction status**

- Once the student has completed three full-time terms, passed the courses, seminars, exams and, if applicable, the other academic activities of the program, he/she registers in redactions until the final evaluation of the internship report or supervised essays. Thereafter, the student is registered for evaluation and correction until the final evaluation by the jury.

For the duration of the internship, you will be registered with Rédaction status (RDC6000) only if all the academic courses required for the program are completed and you have completed the three full-time terms. See the Graduate and Postdoctoral Studies Academic Regulations.
The credits for the thesis option (MM) are distributed as follows:

30 required credits assigned to research and writing a thesis and 15 credits to option courses (4 courses).

To confirm the mention of your specialty in the Master's degree in Computer Science you must have taken at least 2 courses in that specialty.

- Segment 70 Specific to the general option (thesis, internship, supervised essay)
- Segment 71 Specific to the Imaging option (thesis)
- Segment 72 Specific to the Artificial Intelligence option (thesis)
- Segment 73 Specific to the Computational Biology option (thesis)
- Segment 74 Specific to the Theoretical and Quantum Computing option (thesis)
- Segment 75 Specific to the Programming and Software Engineering option (thesis)
- Segment 76 Specific to the Operations Research option (thesis)
Example of a Path
M.Sc. With a thesis - Segments 71 to 76

For your information, here is an example of a standard pathway to complete the program in 2 years (student admitted in the Fall).

**Fall term - 1st year**
- SPT6000 - Full-time status
- IFT XXXX - option courses
- IFT XXXX - option courses
- IFT 2015 - Data Structures (complementary course according to your decision notice)

**Winter Term - 1st Year**
- SPT6000 - Full-time status
- IFT XXXX - option courses
- IFT XXXX - option courses
- IFT 2125 - Introduction to Algorithms (complementary course according to your decision notice)

**Summer Term - 1st Year**
- SPT6000 - Full-time status - Beginning of the research in the laboratory of the confirmed director.
- Admission requirements: Minimum length of schooling (in full-time equivalent terms): 3.0 terms.

**Fall, Winter, and summer Term – 2nd Year**
- RDC6000 – Redaction status - Continuation research in the laboratory, for the writing of the dissertation, followed by the submission of the dissertation.
Structure of the Master's in Computer Science program (with internship - the Professional Master's)

Specific to the Machine Learning option (Segment 77) – Mila

The credits for this option are distributed as follows: 22 mandatory credits attributed to an internship and a minimum of 23 credits for courses to be taken.

Block 77A Fundamentals of Machine Learning (16 credits - mandatory)

• IFT 6135, Representation Learning - 4 credits
• IFT 6390, Foundations of Machine Learning - 4 credits
• IFT 6758, Data Science - 4 credits
• IFT 6759, Advanced Projects in Machine Learning - 4 credits

Block 77B Deepening of Knowledge - (8 credits - option)

Block 77C Broadening of knowledge (optional)

Block 77D Mandatory Internship - 22 credits - mandatory.
For your information, here is an example of a standard pathway to complete the program in 2 years (student admitted in the Fall).

**Fall term - 1st year**
- SPT6000 - Full-time status
- IFT 6390 - Foundations of Machine Learning
- IFT 6758 - Data Science
- IFT 2015 - Data Structures (in a complementary course)

**Winter Term - 1st Year**
- SPT6000 - Full-time status
- IFT 6135 - Representation Learning
- IFT 6759 - Advanced Projects in Machine Learning
- IFT 2125 - Introduction to Algorithms (in a complementary course)

**Summer Term - 1st Year**
- SPT6000 - Full-time status
- (since the student wants to complete the internship)
  (the internship acronym IFT6917 will be added when the report is submitted)

Or

- **Request for the suspension**: temporary interruption in studies of the semester is possible only for Canadian and Quebec students.

- **International students**: you will need to receive approval from the International Student Office (BEI) to confirm that you can temporarily interrupt your studies while meeting the conditions of your study permit.
Example of a Path - Continued
M.Sc. Prof. - Segment 77

Fall Term - 2nd Year
• SPT6000 - Full-time status (completed an internship).
• Enrollment in 1 or 2 courses from Block 77B to complete the 45 credits of the program (option courses)

Winter term - 2nd year
• SPT6000 - Full-time status

Or
• RDC6000 – redaction status - see ESP regulations

And/or
• Enrollment in 1 or 2 courses in Block 77B to complete the 45-credit program (option course)

IMPORTANT:
Registration with redaction status and registration for assessment – correction status

• Once the student has completed three full-time terms, passed the courses, seminars, exams and, if applicable, the other academic activities of the program, he/she registers in writing until the final evaluation of his/her internship report or supervised essays. Thereafter, the student is registered for evaluation and correction until the final evaluation by the jury.

For the duration of the internship, you will be registered with Rédaction status (RDC6000) only if all the academic courses required for the program are completed and you have completed the three full-time terms. See the Graduate and Postdoctoral Studies Academic Regulations.

Note that IFT 6917 - Internship in Machine Learning is only recorded in your file at the time of submission of your internship report and does not contribute to your cumulative grade point average.
Ph.D. credits are distributed as follows: 84 mandatory credits for research and thesis writing and 6 to 8 elective credits. (2 graduate courses).

**Block 70A Option - Minimum 6 credits, maximum 8 credits.**
- IFT 6000-level courses or seminars or any other courses or seminars that the Department deems essential to the student's education.

**Block 70B Research and Thesis Required - 84 credits.**
- IFT 7000 - Doctoral General Examination
- IFT 7910 - Thesis
Structure of the Ph.D. in Computer Science

Comprehensive Doctoral Exam

- It is desirable that candidates for the Ph.D. in Computer Science at UdeM master their field of specialization as well as the fundamentals of computer science. In order to achieve this double objective, they will have to take a comprehensive exam, of which 3 parts (Prédoc I-II-III) must be concluded at the latest at the end of the 6th term of study, under penalty of exclusion from the program.

- The student must register for Part 1 (Predoc I) during the first term of school. Part 2 (Predoc II) is offered in the fall and winter terms, and students may register for it in any term during their first six terms of study. In general, it is recommended that Part 1 be completed before Part 2 and Part 2 before Part 3 (Predoc III), but the student must consult with his/her advisor to plan his/her course of study, including courses, which must also be completed by the end of the 6th term.
Structure of the Ph.D. in Computer Science - continued

Part 1: **PREDOC I**: IFT6001/ IFT2125 and IFT 6002 / IFT 2015  
- registration in 1st session  
- grade $\geq$ B+ in each course, otherwise repeat (1 time)  
- For exemption: transcript + required course outline to be sent to TGDE

Part 2: **PREDOC II** - Specialty Written Exam  
- **Mandatory** after the 2 graduates courses - grade of at least B, otherwise retake (1 time)

Part 3: **PREDOC III** - Presentation of the thesis topic  
- After the specialty written exam  
- 30-40 page report due at least 1 week before the presentation date.
Example of a path  
Ph.D. in Computer Science

For your information, here is an example of a standard path.

Fall term - 1st year  
- SPT7000 - Full-time Status  
- Prédoc I - 2 courses : IFT 6001 et IFT 6002

Winter term - 1st year  
- SPT7000 - Full-time Status  
- 1 or 2 graduate(s) course(s) required in the program

Summer term - 1st year  
- SPT7000 - Full-time Status - Admission requirement: complete 6 full-time terms; ESP regulations to have an activity (status) registered every term.
Example of a path - Continued
Ph.D. in Computer Science

Fall term – 2\textsuperscript{nd} year

• SPT7000 - Full-time Status
• 1 graduate course required if not followed in Winter
• Predoc II – Written Exam: only if the 2 graduate courses taken

Winter term – 2\textsuperscript{nd} year

• SPT7000 - Full-time Status
• Predoc II – Written Exam: only if the 2 graduate courses taken*

Summer Term – 2\textsuperscript{nd} Year

• SPT7000 - Full-time Status - Admission requirement: complete 6 full-time terms; ESP regulations to have an activity (status) registered every term.

• Prédoc III – Oral presentation

Fall term – 3\textsuperscript{rd} year and the following terms...

• RDC7000 - Rédaction Status - to complete the research and the redaction (writing) of the doctoral thesis.

*The 2 required courses and the Predoc exam must be completed within the first 6 terms (2 years)
Pedagogical regulations for graduate and postdoctoral studies - ESP

Minimum and Maximum Schooling for Programs

Section XIV - Registration for the Diploma of Advanced Specialized Studies - DESS
56. Registration Procedures
Registration for courses in the Graduate Diploma (DESS) is based on the number of credits taken. (56.A In the fall and winter terms, students are considered to be registered full-time if they take a minimum of 9 credits of courses per term).

Section XVI - Master's Degree Education
63. Minimum Schooling and Location of Schooling
The minimum academic requirement for a master's program is three full-time terms or the equivalent. It takes place at the Université de Montréal or at a location authorized by the Dean.

Section XXXI - Doctoral Studies
110. Minimum Course of Study and Location of Study
The minimum academic requirement for a doctoral program is six semesters (two years) full-time or the equivalent. The program takes place at the Université de Montréal or at a location authorized by the dean.

The 2 required courses and the Predoc exam must be completed during the first 6 terms (2 years)
• 6 full-time terms (min)
• 6 semesters redaction (min)
• Maximum duration: 5 years (exceptional extension of 1 year)
Graduate Student Status

Section XXIX - Registration for the Diploma of Professional Studies (D.E.S.S.)

102. Procedures
Registration for courses in any professional and advanced degree is by the number of credits taken. Students are not required to register each term. Failure to register for four consecutive terms terminates the student's candidacy. 102A. Full-time or part-time status
In the Fall and Winter terms, a student is considered to be enrolled full-time if he or she is taking a minimum of nine course credits. In the Summer term, the minimum number of credits required is six to be considered full-time. Otherwise, the student is considered enrolled part-time.

Section XVII - Master's Degree Registration

66. Full-time, half-time or part-time status
The candidate for the Master of Science degree is enrolled in a full-time or half-time basis. In calculating the minimum number of terms required for the master's degree, each term in which the candidate is enrolled on a half-time basis shall count as one-half a term.

Section XXXII - Registration for the Doctorate

113. Full-time, Half-time or Part-time Status
The research doctoral candidate shall enroll on a full-time or half-time basis. In research doctoral programs, a minimum of three full-time terms is required. The dean may, for reasons deemed serious, waive the requirement for a minimum of three full-time terms.
Full-time studies are those pursued by the student with full dedication. In calculating the minimum number of terms required for the doctoral degree, each term in which the candidate is enrolled at half-time counts as one-half a term.
The candidate may be enrolled at half-time in any program unless specific program requirements necessitate full-time study.
In the professional doctorate, when the program permits, the student may enroll full-time or part-time as follows:
(a) In the fall and winter terms, the student is deemed to be enrolled full-time if he or she takes a minimum of nine course credits. In the summer term, the minimum number of credits required is six to be considered full-time. Otherwise, the student is considered to be registered part-time.

ATTENTION: All international students holding a study permit are required to be registered full-time at the University every term.
http://www.bei.umontreal.ca/bei/sys_reglements.htm
Section XIX - Registration for the Master's Degree with Internship and supervised essay

72. Registration in Rédaction and Registration in Assessment and Evaluation

Once the student has completed three full-time terms, passed the courses, seminars, examinations and, if applicable, the other academic activities of the program, he/she will register in Rédaction until the final evaluation of the internship report or the supervised essay. Thereafter, the student is registered for evaluation and correction until the final evaluation by the jury.

Section XXII - Registration for the Master's degree with a thesis

80. registration in Rédaction and registration in evaluation - correction

Once the student has completed three full-time terms, passed the courses, seminars, examinations and, if applicable, the other academic activities of the program, the student registers in Rédaction until the submission of the thesis. Thereafter, he/she registers for evaluation and correction until the final evaluation by the jury. Once the dissertation has been accepted and corrected, if necessary, the final submission must be made on the Papyrus institutional site.

SEGMENT IX - PROVISIONS SPECIFIC TO THE RESEARCH DOCTORATE

126. registration for Rédaction and registration for evaluation - correction

Once the student has completed six full-time terms or the equivalent, passed the courses, seminars, examinations, the general comprehensive examination and, if applicable, the other academic activities of the program, the student registers in Rédaction until the thesis is submitted. Thereafter, he/she registers in evaluation - correction until final evaluation by the jury. After acceptance of the thesis and corrections made to it, if any, the final submission must be made on the Papyrus institutional site.

To find out the fees related to your status: Tuition Calculator

Or contact Tuition Fees of Université de Montréal
At the graduate level, it is not the number of credits or courses that influences the bill, but the status.

- **Full-time status (SPT):** at the master's level, the acronym SPT6000 is added when the number of credits exceeds 7.5 credits. However, it is possible to take no courses and keep the full-time status.
- **Half-time status (SDT):** this status cannot exceed 7.5 credits of M.Sc. courses. (only accessible for Canadian students)

Yes, it is possible to be enrolled in only 2 courses and still be registered in full-time status. You must select the full-time status in the drop-down menu in section 5 of the registration form.

You must also consider the admission requirement of taking the 3 semesters in full-time status or the equivalent of 6 semesters at half-time status (example: 2 semesters in SPT and 2 semesters in SDT).

Full-time status may be required for scholarships, insurance, immigration or other purposes.

Full-time status is required for international students.

Also, take into consideration the expected end date of your schooling, in your file it is expected for the last summer term of 2024, otherwise you will have to apply for an extension term to complete the program.

Here are the status codes:

- SPT 6000: **Full-time status:** starting at 0 credits.
- SDT 6000: **Half-time status:** 7.5 credits and below (available to domestic students only).
- ROC 6000: **Redaction:** You must have completed all academic courses to access this status (students enrolled in redaction status is considered full-time by the Registrar's Office).
- COR 6000: **Correction:** Once the final internship or directed work report is submitted and we are awaiting the final grade.
Course Grading

Grading of courses is done on a literal system, with each letter corresponding to a number of points.

The minimum passing grade in a course = C = 2.0
otherwise:
At Ph.D. = exclusion!!!
At M.Sc. = Repeat with a maximum of B-.

The minimum passing grade in a program = B- = 2.7
If the average is less than < 2.7 = no degree
If more than 9 credits of preparatory courses: 2 separate averages (preparatory and regular courses)

Otherwise: preparatory courses count towards the average.
Schedule and course offering

Required Prerequisite Course:

All graduate courses in computer science require as a prerequisite the content of the course: IFT1015 - Programming 1

Description: Basic elements of a programming language: types, expressions, conditional and iterative statements, procedures, functions, parameters, recursion, arrays, records, pointers and files.

Course schedule

To find out when courses are offered at UdeM, to plan a term or to prepare an application for admission, do a search by clicking on the box below. Only courses for the next 2 terms are displayed.

https://registraire.umontreal.ca/etudes-et-services/horaire-des-cours/

DIRO's course offering

Click on the course acronym to get the schedule. And don't forget to respect the star code *** associated with the courses.

https://diro.umontreal.ca/english/programs/courses-schedule/
Course Registration

You must complete an online electronic form which can be found under the "Your Forms" or « Vos formulaires » tab on your Student Center.

- Course Registration - INS_Inscription

Once completed, you will be able to track the progress of your application directly in the "Your Forms" vignette and receive a response without having to exchange emails or make calls to your TGDE.

Please allow time for your application to be approved. Some courses have limited space and/or require approval from another TGDE. Thank you for your patience and understanding 😊
For your registration request, cancellation or modification of courses, please fill out the forms below listed:

- Course Registration - **INS_Inscription**
- Changing your course selection - **INS_Modification_Choix_Cours**
- Change of specialization - **CHE_Changement_Spécialisation**
- Cancellation and Dropping out - **INS_Annul_Abandon_cours**
- Suspension and Temporary Interruption - **CHE_Interruption_Temporaire**
- Program Drop out - **CHE_Abandon_programme**
- Absence assesment - **CHE_Absence_évaluation**
- Request for first name chosen - **GEN_Prénom_Choisi**

**Forms Help:** The registrar’s office offers you a “help page” through which you can view a short video to learn how to: **Filling out a form.**

**Form tips:** Fill in all the boxes in the form, and in order from left to right, one line after the other, using the magnifying glass.
Official periods and deadlines

Registrar's Office: [https://registraire.umontreal.ca/dates-importantes/periodes-et-dates-limites-officielles/](https://registraire.umontreal.ca/dates-importantes/periodes-et-dates-limites-officielles/)

Course registration changes
To change your registration or cancel one or more courses without paying tuition, you must do so by the following dates.

- Fall 2022: September 21, 2022
- Winter 2023: January 24, 2023

Dropping a course (abandon)
To withdraw from a course (with fees and ABA credit), you must do so by the following dates unless otherwise indicated on the schedule. Withdrawal after these dates will result in a failure (F) and payment of tuition fees.

- Fall 2022: November 11, 2022
- Winter 2023: March 17, 2023

IMPORTANT: Withdrawal from a course is not permitted at the Pre-Doc (Ph.D.).
Complementary Courses

The DIRO Graduate Admissions Review Committee evaluates your academic background and may decide to add the admission requirement of completing and passing 1 or 2 of the following complementary course(s): IFT 2015 - Data Structures and IFT 2125 - Introduction to Algorithms.

The DIRO departmental policy requires that these courses be taken early in the program. It will not be permitted to begin the internship or to access to the redaction status with a thesis if these courses are not successfully completed.

According to DIRO regulations, the complementary courses must be taken at the University of Montreal, during the first two terms as follows:

1st term  : IFT 2015 - Data Structures
2nd term  : IFT 2125 - Introduction to Algorithms.

These courses are only offered in French, most textbooks and course materials are in English, and most professors are willing to let you pass your exams and submit assignments in English as well.

For more information: https://diro.umontreal.ca/english/programs/graduate-programs/masters-in-computer-science/complementary-courses-ift2015-and-ift2125/
AEHE – Inter-University Transfer Authorization from the Office of Interuniversity Cooperation - BCI.

Taking a course under an inter-university agreement means that a student admitted to a regular program at the Université de Montréal may, with the agreement of the faculty, take one or more courses at another university, thus obtaining an authorization for external studies, an « Autorisation d'études hors établissement » (AEHE).

Consult the steps of the application via the Office of the Registrar's website

• **ATTENTION:** The number of credits per course taken in the AEHE inter-university agreement is 3 credits only. You must complete the 30, 45 or 90 credits of your program.

• **ATTENTION:** It is mandatory to respect the minimum number of credits per block. Always refer to the program structure before choosing your courses.

• **IMPORTANT!** We remind you that it is your responsibility to respect the program structure. Enrollment in extra courses or in another program is not permitted and will be subject to deregistration.
Important forms at the DIRO

*** See the various directories of important forms to be submitted by program on the DIRO website:

- Forms for the DESS
- Forms for the Master's degree
- Forms for the Ph.D.

Here are the main ones:

**Designation of the research supervisor and co-supervisor**
- M.Sc. and Ph.D.: at the end of the first term

**Global studies plan**
- M.Sc. and Ph.D.: at the end of the first term

**Registration of the research topic**
- M.Sc.: at the end of the second term
- Ph.D.: at the end of the third term

**Registration of the internship**
- DESS with internship: at the end of the first term
- M.Sc.: at the end of the second term

**Internship agreement form and registration**
- DESS and the M.Sc. Professional: at the end of the second term, before the internship

**Notice of Deposit**
- Ph.D.: approximately 2 months before the actual filing
<table>
<thead>
<tr>
<th>Degree Type</th>
<th>Designation of the Research Supervisor and Co-supervisor</th>
<th>Registration of the Research Topic</th>
<th>Registration of the Internship and Internship Agreement (Segment 77)</th>
<th>Rédaction in English (1)</th>
<th>Global Studies Plan (2)</th>
<th>Notice of Deposit</th>
<th>Writing by Articles (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.E.S.S.</td>
<td>Before the end of the first term</td>
<td>2 months before the start of the internship</td>
<td>Before the end of 2nd term</td>
<td></td>
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</tr>
<tr>
<td>Master, General option Internship – DIRO (Segment 70)</td>
<td>As soon as a director is confirmed - Before the end of the 2nd term.</td>
<td>2 months before the start of the internship</td>
<td>With the resitration of the Research Topic.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master's degree in Research (71 à 76)</td>
<td>As soon as a director is confirmed - Before the end of the 2nd term.</td>
<td>Before the end of 2nd term</td>
<td>With the resitration of the Research Topic.</td>
<td>On request</td>
<td>2 months before the master's thesis deposit</td>
<td>2 months before the master's thesis deposit</td>
<td></td>
</tr>
<tr>
<td>Master's in machine learning (Segment 77)</td>
<td>Before the end of the first term</td>
<td>2 months before the start of the internship</td>
<td>Before the end of 2nd term</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doctorat - Ph.D.</td>
<td>As soon as a director is confirmed - Before the first term.</td>
<td>Before the end of the 3rd term</td>
<td>With the resitration of the Research Topic.</td>
<td>On request</td>
<td>2 months before the submission of the thesis</td>
<td>2 months before the submission of the thesis</td>
<td></td>
</tr>
</tbody>
</table>
Important procedures for your program at DIRO

*** Consult the different procedures and descriptions by program modality on the DIRO website:

1. **D.E.S.S. in Machine Learning**
2. **Master's degree in computer science with master's thesis**
3. **Master's degree in computer science with supervised essay**
4. **Master's degree in computer science with internship**
5. **Ph.D. in computer science**

*** See the various directories of important forms to be submitted by program on the DIRO website:

- Forms for the DESS
- Forms for the Master's degree
- Forms for the Ph.D.
To find out more about the laboratories

- click on the link:

<table>
<thead>
<tr>
<th>Labo</th>
<th>Orientation</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEODES LTP</td>
<td>Programming and Software Engineering</td>
</tr>
<tr>
<td>HÉRON MILA RALI</td>
<td>Artificial Intelligence (AI)</td>
</tr>
<tr>
<td>LIGUM + IMAGE + V3D</td>
<td>Imaging</td>
</tr>
<tr>
<td>OPTIM + CIRREL + LRC</td>
<td>Operational Research</td>
</tr>
<tr>
<td>LBIT</td>
<td>Computational Biology</td>
</tr>
<tr>
<td>LITO</td>
<td>Theoretical and Quantum Computing</td>
</tr>
</tbody>
</table>
International students

**IMPORTANT:** All international students must obtain a CAQ and a valid study permit to study at the Université de Montréal.

We invite you to contact the International Student Office (BEI) to get the information about the deadlines and provide the proper immigration documents.

See the regulations of the UdeM [International Students Office - BEI](mailto:bei@sae.umontreal.ca)

Here is the contact information:
- Email: bei@sae.umontreal.ca
- Telephone: 514 343-6935

If you do not provide your immigration document on time, you risk being **permanently unregistered** for the entire current term.

This action is independent of the DIRO and is irreversible.

« International students must have the required immigration documents to study. And to obtain these documents, they must present themselves in the country. Once the deadline has passed, if students are not able to provide us with the required immigration documents, they will be unenrolled (and refunded if applicable). Students should be aware of this risk. They will not be able to continue their online courses. »
International students - continued

Un-enrollment dates per term:
- October 1st for new students or students whose immigration documents expire on or before September 30th;
- November 1st for a student whose immigration documents expire between October 1st and October 31st, inclusive;
- December 1st for a student whose immigration documents expire between November 1st and December 30th, inclusive.

BEI Regulations:
- Following cancellation of registration by the Registrar's Office, there will be no possibility of re-enrollment for that term. International student’s medical insurance coverage will be cancelled along with the term registration record, effective the date of un-enrollment. Only coverage for completed months will remain on the student's account.
The 4 commandments for a successful transition to UdeM

The 1st commandment - Your registration

• Be enrolled every term even in the summer when no graded courses are given...

• Apply for a Suspension and Temporary Interruption -Form: CHE_Temporary_Interruption

• According to the ESP Academic Regulations, you must still be enrolled every semester to graduate.

• * International students are required to be enrolled in all semester without exception on a full-time basis. http://www.bei.umontreal.ca/bei/sys_reglements.htm

• * UdeM Tuition fee weaver holders (old C scholarship), who are not enrolled in the Summer semester, may lose their scholarship and UdeM Tuition fee weaver. As a reminder, suspensions are not allowed for the UdeM Tuition fee weaver holders (old C scholarship).
The 4 commandments for a successful transition to UdeM

2nd Commandment - Supervisor Designation
Provide the name of the supervisor ASAP - send the supervisor designation form by email to your TGDE.

3th Commandment - Pay your bill
Pay your tuition on time, otherwise: you will not be able to register for the next term. This may mean that you will not receive a scholarship check, etc.

4th Commandment - Search for information on the DIRO website
Get in the habit of always referring to this welcome document (and DIRO website) to find an answer to your questions.

Last Commandment
"When communicating with your TGDE, remember to include your matricule number: Synchro, in the subject line of all correspondence."
Contact

Ms. Linda Peinhière

Student Affairs Coordinator / Coordonnatrice aux affaires étudiantes

E-mail: linda.peinhiere@mila.quebec
IT support at DIRO

Important - Working Remotely - Covid19

If you need technical assistance, the team remains available remotely. Just open a request in our RADAR ticketing system.

Information

• Remote working tools available for the DIRO and DESI community
• How to get your username and password.
• To access the list of software offered by UdeM IT.
• To find out how to access your directory remotely.
• The PDF document of the presentation given at the last welcome session is available here.
• Information on the code of ethics to be respected.
• If you need help, send a request to RADAR.
IT support at DIRO - continued

DIRO's IT support presents you with these slides that contain all the necessary information:

https://diro.umontreal.ca/public/FAS/diro/Documents/1-Programmes-cours/2-3-cycle/AccueilSupport.pdf

- The presentation is available on our technical support site:
  https://support.iro.umontreal.ca/doku.php
- It is also available on the 2\textsuperscript{nd} cycle page:
  https://diro.umontreal.ca/english/programs/graduate-programs/

Consult the presentations of the Computer Support at DIRO
The Mathematics and Computer Science Library in Virtual Mode

Please feel free to contact Indiana, the librarian, if you would like to discuss of all the services offered by the libraries!
To access electronic resources

Accès hors-campus aux ressources électroniques (proxy)

Réserver une salle de travail
Zones de travail
Équipements

Soutien informatique

En bibliothèque
À distance (Sid)

Accès hors-campus (proxy)

Windows 10
Windows 7 et 8
Mac
Android
iPad, iPhone et iPod
Chromebook

Préalables

- être étudiant ou membre du personnel de l'Université de Montréal;
- avoir un code d'accès et un UNIP/mot de passe.

https://bib.umontreal.ca/travailler/soutien-informatique/proxy
Covid-19

For any other question?
Please write to infocovid19@umontreal.ca or visit the info COVID-19 website.

You want to receive the latest communications related to the health situation at UdeM? Subscribe to the Info COVID-19 news feed: you will receive a notification each time a new communication is published.
Thank you and have a great success!