DOCTORATE IN PHILOSOPHY IN GEOGRAPHY

The Department of Geography, Environment and Geomatics conducts research and teaching on the interrelationships between human society and the physical world. Students are introduced to the full spectrum of subfields, including human and physical geography, environmental studies, and geomatics. Specific departmental strengths include polar environments, urban geography, climate change, and GIS and remote sensing.

In addition to its undergraduate programs, the department offers thesis-based two-year Master of Arts (MA) and Master of Science (MSc) programs, as well as a course-based interdisciplinary one-year Master concentration in The Anthropocene (MSc), and a PhD in Geography. Through the MA and MSc programs, students can also participate in the collaborative program in Science, Society and Policy. The programs are governed by the general regulations in effect for graduate studies.

Admission Requirements

For the most accurate and up to date information on application deadlines, language tests and other admission requirements, please visit the specific requirements webpage.

Students must meet the admission requirements outlined in the general regulations in effect for graduate studies, as well as the specific requirements of the department.

Students may be admitted to the PhD program on the basis of a master’s degree or its equivalent in geography or a related discipline, with an academic record indicating at least a (B+) average or the equivalent.

Students are required to spend at least six terms of full-time enrollment at the University. For a definition of full-time enrollment, please see Section C “Enrollment” of the general regulations in effect for graduate studies.

Additional Coursework

The Admissions Committee may, depending on the candidates’ background, require them to successfully complete additional courses, including language courses, beyond the basic MA degree requirements.

Application Deadline

To find the application deadline, please check the program-specific requirements under Application Procedures and Information.

Transfer from Master’s to PhD

Students enrolled in the MA or MSc program in geography at the University of Ottawa who have obtained excellent results may be admitted into the PhD program without completing a master’s thesis. To take advantage of this option, they must meet, in sequence, the following conditions:

1. obtain a minimum average of A- in three master’s courses;
2. have the department’s approval;
3. successfully complete GEG 7906; and
4. demonstrate satisfactory progress in the research program.

The course GEG 7906 will provide six units that may be used toward the fulfillment of the PhD course requirements, thus leaving one three-unit course to be completed. Please note that the minimal admission average requirements for the doctoral program must also be met.

Additional Information

For additional information, refer to the Department of Geography’s website.

Program Requirements

Requirements for this program have been modified. Please consult the 2021-2022 calendars for the previous requirements.

Compulsory Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>GEG 5000</td>
<td>Graduate Field Camp</td>
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</table>

Optional Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GEG 7906</td>
<td>Preparation of Ph.D. thesis project</td>
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Note(s)

1. A maximum of three course units can be replaced by three other units approved by the Department of Geography.
2. Students whose mother tongue is either English or French must demonstrate passive knowledge of the second official language of Canada. This can be done by passing a language test in the first year of their studies, or by completing a language course at the Official Languages and Bilingualism Institute. For additional information, please contact your supervisor or the director of graduate studies at gegdirg@uottawa.ca.

Minimum Standards

The passing grade in all courses is C+. Students who fail two courses (equivalent to 6 units) must withdraw from the program.

Duration of Program

The requirements of the program are usually fulfilled within four years. The maximum time permitted is six years from the date of initial enrollment in the program.

Thesis Advisory Committee

During the first term of the program, a thesis advisory committee (TAC) is formed for the candidate. The Committee’s membership will be determined by the specific interests of the candidate. It will be composed of the supervisor and 2-3 additional professors. At least one member of the thesis committee, in addition to the supervisor, must be from the Faculty of Arts. The TAC is responsible for guiding the student throughout their studies.

the program, including course selection, the comprehensive examination, thesis proposal, and thesis defense.

A meeting between the student and the Thesis Advisory Committee will take place at least once per term. The thesis examining board may include members who are not part of the TAC.

Research

Research Fields & Facilities

Located in the heart of Canada's capital, a few steps away from Parliament Hill, the University of Ottawa is among Canada's top 10 research universities.

uOttawa focuses research strengths and efforts in four Strategic Areas of Development in Research (SADRs):

- Canada and the World
- Health
- e-Society
- Molecular and Environmental Sciences

With cutting-edge research, our graduate students, researchers and educators strongly influence national and international priorities.

Research at the Faculty of Arts

The Faculty of Arts is proud of the state of the art research conducted by its professors. In the spirit of showcasing its research to the university community as well as to the general public, the Faculty has created three activities: Dean's Lecture Series, Treasures of the Library, and Excellence Lectures.

Facilities, Research Centres and Institutes at the Faculty of Arts

- Centre de recherche en civilisation canadienne-française (http://arts.uottawa.ca/crccf/),
- Institute of Indigenous Research and Studies (http://arts.uottawa.ca/canada/en),
- Institute for Science, Society and Policy (http://issp.uottawa.ca/en/),
- Official Languages and Bilingualism Institute (OLBI) (http://olbi.uottawa.ca/)

For more information, refer to the list of faculty members and their research fields on Uniweb (https://uniweb.uottawa.ca/#!arts/themes).

Courses

Courses with 51XX and 55XX codes are reserved for students enrolled in the MA or PhD programs.

Courses with 53XX and 57XX codes are reserved for students enrolled in the MSc or PhD programs.

Courses at the 6000-level are available for all graduate students in geography.

Courses at the 7000-level are reserved for students enrolled in the MA and MSc programs.

Courses at the 8000- or 9000-levels are reserved for students enrolled in the PhD program.

GEG 5105 Selected Topics in Human Geography (3 units)
In-depth examination of a question or topic linked to new trends or research areas in human geography.
Course Component: Seminar

GEG 5109 Place and Social Transformations (3 units)
Interplay between social and spatial transformations and its implications for meanings and representations from global to local scales.
Course Component: Seminar

GEG 5310 Selected Topics in Physical Geography (3 units)
Course Component: Seminar

GEG 5311 Environmental Change in Cold Regions (3 units)
Dynamics of cold environments with particular emphasis on their sensitivity to climate variability and climate change, natural and anthropogenically induced.
Course Component: Seminar

GEG 5505 Thèmes choisis en géographie humaine (3 crédits)
Volet : Séminaire

GEG 5510 Espaces et lieux entre société et culture (3 crédits)
Espaces de référence, lieux d’appartenance et territoire dans le contexte des mutations sociales contemporaines et de la fragmentation des identités culturelles.
Volet : Séminaire

GEG 5707 Milieux nordiques (3 crédits)
Les milieux glaciaires ou périglaciaires, anciens ou actuels. Approches géomorphologique, hydrologique et paléobotanique.
Volet : Séminaire

GEG 5710 Thèmes choisis en géographie physique (3 crédits)
Volet : Séminaire

GEG 5914 Problèmes géographiques du Canada de l’Est / Geographical Problems of Eastern Canada (2 crédits / 2 units)
Volet / Course Component: Séminaire / Seminar

GEG 5970 Lectures dirigées / Directed Readings I (3 crédits / 3 units)
Volet / Course Component: Recherche / Research

GEG 5973 Élaboration du projet de thèse (3 crédits / 3 units)
Volet / Course Component: Recherche / Research

GEG 60001 Séminaires Phipps-Langlois (1/2) / Phipps-Langlois Seminars (1/2)
Séminaires Phipps-Langlois de 45 à 60 minutes par des étudiants diplômés, des professeurs ou d'autres conférenciers invités. / Phipps-Langlois seminars of 45- to 60-minute by graduate students, professors, or other invited speakers
Volet / Course Component: Cours magistral / Lecture

GEG 60002 Séminaires Phipps-Langlois (2/2) / Phipps-Langlois Seminars (2/2) (3 crédits / 3 units)
Séminaires Phipps-Langlois de 45 à 60 minutes par des étudiants diplômés, des professeurs ou d'autres conférenciers invités. / Phipps-Langlois seminars of 45- to 60-minute by graduate students, professors, or other invited speakers
Volet / Course Component: Cours magistral / Lecture

Spatial data science is useful in many fields, including big data, population health sciences, biological sciences, earth sciences, medicine, engineering and social sciences. In this course, you will learn how to manipulate, analyze and model spatial data. Sections of the course focus on stochastic simulation and Monte Carlo methods in point-pattern analysis, spatial autocorrelation and geostatistics. Practical applications utilize the open-source software and data science computing languages (e.g. R, Python), no previous experience required. At the end of this course, you will have a toolbox of spatial analytical skills and a solid understanding of their appropriate applications to real-world questions.

Course Component: Seminar

GEG 6502 SIG pratique pour les études supérieures (3 crédits)
Pensez-vous que vous voulez être utiliser des systèmes d'information géographique (SIG) dans votre recherche de thèse? Êtes-vous fasciné par le potentiel de la science des données spatiales pour améliorer votre recherche? Si vous avez répondu oui à l'une de ces questions, ce cours d'introduction est pour vous. Le cours est spécifiquement axé sur les aspects pratiques et pragmatiques du travail avec des données terrestres numériques, y compris des images vectorielles, matricielles et satellites. Un accent particulier est mis sur les systèmes de coordonnées horizontales, les transformaciones, le géoréférencement, la manipulation des données spatiales, le géotraitement, le géocodage et la création de scripts pour l'automatisation et la modélisation des flux de travail. À la fin du cours, vous serez confiant dans l'utilisation des concepts et des capacités de la science des systèmes d'information géographique pour travailler avec des données spatiales du monde réel.

Volet : Séminaire

GEG 6503 Science des données spatiales (3 crédits)
La science des données spatiales est utile dans de nombreux domaines, notamment 'big data', les sciences de la santé, les sciences biologiques, les sciences de la terre, la médecine, l'ingénierie et les sciences sociales. Dans ce cours, vous apprendrez à manipuler, analyser et modéliser des données spatiales. Les sections du cours se concentrent sur la simulation stochastique et les méthodes de Monte Carlo dans l'analyse des motifs de points, l'autocorrélation spatiale et la géostatistique. Les applications pratiques utilisent les logiciels et les langages informatiques de la science des données à source ouverte (p.ex. R, Python), aucune expérience préalable requise. À la fin de ce cours, vous aurez une boîte à outils de compétences analytiques spatiales et une solide compréhension de leurs applications appropriées aux questions du monde réel sur les données spatiales.

Volet : Séminaire

GEG 7906 Recherche dirigée / Directed Research (6 crédits / 6 units)
Recherche dirigée pendant une session, évaluée par trois membres de la Faculté des études supérieures et postdoctorales. L'inscription à temps plein est obligatoire. La note donnée sera S (satisfaisant) ou NS (non satisfaisant). N.B. Inscription limitée aux étudiants désirant transférer de la maîtrise au doctorat. / One session of directed research, evaluated by three members of the Faculty of Graduate and Postdoctoral Studies. The student must be enrolled full-time for this session. The course will be graded S (satisfactory) / NS (Not satisfactory). NOTE: Restricted to students intending to transfer from master's to PhD.

Volet / Course Component: Recherche / Research

This is a copy of the 2022-2023 catalog.
GEG 7910 Lectures dirigées / Directed Readings (3 crédits / 3 units)
**Volet / Course Component:** Recherche / Research
Permission du Département est requise. / Permission of the Department is required.

GEG 7996 Élaboration et présentation du projet de thèse de maîtrise ès sciences / Preparation and Presentation of the MSc Thesis Project (3 crédits / 3 units)
Le projet de recherche doit normalement s’inscrire dans un champ d’études reconnu par le CRSNG. / The research project must normally be in a research field recognized by NSERC.
**Volet / Course Component:** Recherche / Research

GEG 7998 Élaboration et présentation du projet de thèse de maîtrise ès arts / Preparation and Presentation of the M.A. Thesis Project (3 crédits / 3 units)
Le projet de recherche doit normalement s’inscrire dans un champ d’études reconnu par le CRSHC. / The research project must normally be in a research field recognized by SSRHC.
**Volet / Course Component:** Recherche / Research

GEG 8900 Lectures dirigées / Directed Readings (3 crédits / 3 units)
**Volet / Course Component:** Recherche / Research
Permission du Département est requise. / Permission of the Department is required.

GEG 9001 Élaboration du projet de thèse de doctorat / Preparation of Ph.D. Thesis Project (6 crédits / 6 units)
**Volet / Course Component:** Recherche / Research

GEG 9998 Examen de synthèse / Comprehensive Examination
**Volet / Course Component:** Recherche / Research