

**DEPARTMENT OF GEOGRAPHY, GEOMATICS AND ENVIRONMENT**  
**2024-2025 FALL / WINTER ACADEMIC SESSION**  
**UNIVERSITY OF TORONTO MISSISSAUGA**  
**Unit 1 CUPE 3902**  
**Regular Posting**

POSTING DATE: June 26, 2024  
CLOSING DATE: July 18, 2024

The following Course Instructor positions are available in the Department of Geography, Geomatics and Environment at the University of Toronto Mississauga for the 2024-2025 Fall / Winter Academic Session. This is a **regular posting** in accordance with the Collective Agreement between the Governing Council of the University of Toronto and CUPE 3902 (Unit 1). To be considered for a position applicants must submit the attached CUPE application form as well as their CV of no more than 3 pages and course evaluations, by email to the Chair, Laura Brown [geography.admin@utoronto.ca](mailto:geography.admin@utoronto.ca). This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement. This position will require regular attendance at the UTM campus.

*"Please note that should rates stipulated in the collective agreement vary from rates stated in this posting, the rates stated in the collective agreement shall prevail."*

**Salary:** in accordance with the current CUPE 3902 Unit 1 Collective Agreement, the Course Instructor I rate of pay will be \$9,094.13 for a Half (F/S) course. Pay rate is exclusive of vacation pay.

**Sessional Dates (including Exam periods):** September 1 – December 31, 2024 for F courses; January 1 – April 30, 2025 for S courses.

**Note:** Course instructor positions involve completion of any course grading remaining incomplete at the end of the academic session excluding deferred exams. Positions are tentative pending final course enrolments.

**All qualified applicants are encouraged to apply. If assistance is required during applying, hiring, or during the appointment, please contact [geography.admin@utoronto.ca](mailto:geography.admin@utoronto.ca)**

Course Number/Title/Description	Class Schedule		Estimated Enrolments	Estimated T.A. Hours	Duties	Qualifications
	Section	Day				
<u><b>ENV320H5F – Managing Our Waste (SSc)</b></u> Garbage archaeologist William Rathje once said, "Garbage isn't generic junk. It's elements of our behavior all thrown together." The history of human civilization is reflected in what societies have thrown away over the ages. But in recent decades both the quantity and types of waste generated by human activities have changed radically. In this course we will address the philosophical, social, and management challenges associated with waste in Canadian and international contexts, as well as examining some of the technological and scientific aspects of specific waste management problems.	LEC0101	TUE	15:00-17:00	75  (will be subject to final enrollment figures)	All normal duties related to the design and teaching of a university credit course, including preparation and delivery of course content; development, administration and marking of assignments, tests and exams; calculation and submission of grades; holding regular office hours; supervising TA's assigned to course; order all necessary readings.	PhD or PhD candidate in physical geography, environmental science, environmental management or related field with specific expertise in the course subject content. Previous experience teaching a similar course and evidence of teaching excellence in the subjects covered in the course would be an asset. Past teaching experience is the more relevant criterion in respect of the posted position.

Course Number/Title/Description	Class Schedule			Estimated Enrollments	Estimated T.A. Hours	Duties	Qualifications
	Section	Day	Time				
<p><b><u>GGR278H5F – Geographical Information Systems (Sci)</u></b> Introduction to models of representation and management of geographical data for scientific analysis. Basic quantitative methods and techniques for geographic data analysis, including collection, manipulation, description and interpretation. Practical exercises using GIS and statistical software packages with examples drawn from both physical and human geography.</p>	LEC0101	TUE	11:00-13:00	144	(will be subject to final enrollment figures)	All normal duties related to the design and teaching of a university credit course, including preparation and delivery of course content; development, administration and marking of assignments, tests and exams; calculation and submission of grades; holding regular office hours; supervising TA's assigned to course; order all necessary readings.	PhD or PhD candidate in Geomatics or a related field. Proficient with ArcPro and other GIS software. Demonstrated evidence of teaching excellence would be an asset. Previous experience teaching a similar course is highly desirable. Past teaching experience is the more relevant criterion in respect of the posted position.
<p><b><u>GGR309H5F – Wetland Ecosystems (Sci)</u></b> Wetlands are an integral part of our biosphere, playing fundamental roles in the modification of water quality, biodiversity, and the global carbon cycle. This course focuses on the classification, hydrology, biogeochemistry, and ecology of wetland systems. The latter part of the course builds on this physical foundation by introducing management issues associated with wetland preservation, restoration and creation. This course fulfills 4 field days. [24L, 36P]</p>	LEC0101	WED & FRI	10:00-11:00	40	(will be subject to final enrollment figures)	All normal duties related to the design and teaching of a university credit course, including preparation and delivery of course content; development, administration and marking of assignments, tests and exams; calculation and submission of grades; holding regular office hours; supervising TA's assigned to course; order all necessary readings.	Ph.D or Ph. D candidate in physical geography or related field. Demonstrated experience with the subject content essential. Experience with field work is essential. Previous experience teaching a similar course, and evidence of teaching excellence in the subject covered in the course would be an asset. The need to acquire experience is the more relevant criterion in respect of the posted position.
<p><b><u>GGR337H5F – Environmental Remote Sensing (Sci)</u></b> This introductory course emphasizes mastering fundamental remote sensing concepts and utilizing remotely sensed data for monitoring land resources and environmental change. Topics include surface-energy interactions, sensor systems, image interpretation, and applications for examining soil, vegetation and water resources. Upon completion of this course, students should have the necessary knowledge and skills to pursue more advanced work in digital image processing and remote sensing applications.</p>	LEC0101	MON	13:00-15:00	144	(will be subject to final enrollment figures)	All normal duties related to the design and teaching of a university credit course, including preparation and delivery of course content; development, administration and marking of assignments, tests and exams; calculation and submission of grades; holding regular office hours; supervising TA's assigned to course; order all necessary readings.	PhD or PhD candidate in Geomatics or a related field. Proficient with ErDAS, ArcPro. Previous experience teaching a similar course, and evidence of teaching excellence in the subject covered in the course would be an asset. Past teaching experience is the more relevant criterion in respect of the posted position.

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	Section	Day	Time				
<p><b><u>GGR376H5S – Spatial Data Science II (Sci)</u></b>  This course builds on quantitative methods introduced in GGR276, and aims to provide a broad study of advanced statistical methods and their use in a spatial context in physical, social, and environmental sciences. The course covers theories, methods, and applications geared towards helping students develop an understanding of the important theoretical concepts in spatial data analysis, and gain practical experience in application of spatial statistics to a variety of physical, social and environmental problems using advanced statistical software.</p>	LEC0101	THU	15:00-17:00	90	(will be subject to final enrollment figures)	All normal duties related to the design and teaching of a university credit course, including preparation and delivery of course content; development, administration and marking of assignments, tests and exams; calculation and submission of grades; holding regular office hours; supervising TA's assigned to course; order all necessary readings.	PhD or PhD candidate in Geomatics or a related field. Expertise required in R and geography related statistics. Demonstrated evidence of teaching excellence would be an asset. Previous experience teaching a similar course is highly desirable. Past teaching experience is the more relevant criterion in respect of the posted position.
<p><b><u>GGR437H5S – Cloud Based Image Analysis (Sci)</u></b>  This course builds on the fundamental remote sensing concepts, techniques, and applications introduced in GGR337H5, and aims to provide an advanced study of digital image processing and remote sensing applications. In specific, this course will use a cloud-based platform for large-scale analysis of satellite imagery, including mapping ground features, detecting changes, and identifying trends on the Earth's surface.</p>	LEC0101	MON	13:00-14:00	40	(will be subject to final enrollment figures)	All normal duties related to the design and teaching of a university credit course, including preparation and delivery of course content; development, administration and marking of assignments, tests and exams; calculation and submission of grades; holding regular office hours; supervising TA's assigned to course; order all necessary readings.	PhD or PhD candidate in Geomatics or a related field. Applicants must have a background in Remote Sensing and the ability to teach using Google Earth Engine, JavaScript and/or Python. Previous experience teaching a similar course, and evidence of teaching excellence in the subject covered in the course would be an asset. Past teaching experience is the more relevant criterion in respect of the posted position.
<p><b><u>GGR484H5F – The Climate of the Arctic (Sci)</u></b>  High latitude environments are becoming the focus of increasing scientific attention because of their role in global environmental change. The implications of changes occurring to the sea ice and snowcover are far reaching and can have impacts on physical, biological and human systems both within and beyond the region. This course will provide a comprehensive examination of climates of high latitudes. Topics that will be covered include the</p>	LEC0101	TUE	11:00-13:00	20	(will be subject to final enrollment figures)	All normal duties related to the design and teaching of a university credit course, including preparation and delivery of course content; development, administration and marking of assignments, tests and exams; calculation and submission of grades; holding regular office hours; supervising TA's assigned to course; order all necessary readings.	Ph.D. or Ph.D. candidate in Physical Geography or related field with specific expertise in Arctic climatology. Demonstrated knowledge of arctic ice and snow is essential. Demonstrated knowledge of remote sensing for arctic research an asset. Documented evidence of teaching excellence in the subject area within a university environment is considered an asset. Previous online teaching experience is preferred. The

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Arctic energy budget and atmospheric circulation, the hydrologic cycle in the Arctic, the ocean-sea ice-climate interactions and feedbacks, modeling the Arctic climate system as well as an evaluation of recent climate variability and trends. [24L]							need to acquire experience is the more relevant criterion in respect of the posted position.
<b><u>JEP351H5F – Comparative Environmental Policy</u></b> This course is an introduction to comparative environmental policy. The focus of the course will be comparing different country's policies on climate change, biodiversity, water, and pollution. Larger themes related to sustainable development and environmental justice will be covered in detail.	LEC0101	WED	15:00-17:00	70	(will be subject to final enrollment figures)	All normal duties related to the design and teaching of a university credit course, including preparation and delivery of course content; development, administration and marking of assignments, tests and exams; calculation and submission of grades; holding regular office hours; supervising TA's assigned to course; order all necessary readings.	Ph.D. or Ph.D. candidate in Environmental Management or related field with specific expertise in the course subject content. Previous experience teaching a similar course and evidence of teaching excellence in the subjects covered in the course would be an asset. The need to acquire experience is the more relevant criterion in respect of the posted position.

- ***The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from racialized persons / persons of colour, women, Indigenous / Aboriginal People of North America, persons with disabilities, LGBTQ2S+ persons, and others who may contribute to the further diversification of ideas.***
- ***Candidates who are members of Indigenous, Black, racialized and LGBTQ2S+ communities, persons with disabilities, and other equity seeking groups are encouraged to apply, and their lived experience shall be taken into consideration as applicable to the position.***
- ***The University strives to be an equitable and inclusive community, and proactively seeks to increase diversity among its community members. Our values regarding equity and diversity are linked with our unwavering commitment to excellence in the pursuit of our academic mission. The University is committed to the principles of the Accessibility for Ontarians with Disabilities Act (AODA). As such, we strive to make our recruitment, assessment and selection processes as accessible as possible and provide accommodations as required for applicants with disabilities. If you require any accommodations at any point during the application and hiring process, please contact [uoft.careers@utoronto.ca](mailto:uoft.careers@utoronto.ca). During employment, to request accommodation from the University, contact the supervisor or department chair and/or Health & Wellbeing Programs & Services at [hwb@utoronto.ca](mailto:hwb@utoronto.ca). For more information about accommodations at U of T, please visit our Accommodation webpage.***

- ***Duties of this position shall be performed at the campus on which the position is located. Where the duties are intended to be performed at another location, such other location will be specified in the posting.***
- ***The hiring criteria for Course Instructors positions are academic qualifications, the need to acquire experience, previous teaching experience and previous satisfactory employment under the provisions of this Collective Agreement.***
- ***This job is posted in accordance with the CUPE 3902 Unit 1 Collective Agreement.***
- ***Positions posted here are open to Graduate Students in the School of Graduate Studies, Postdoctoral Fellows and Undergraduate Students in the University of Toronto.***