Contract Instructor Positions
Department of Earth Sciences
Carleton University

In accordance with Articles 15-16 of the CUPE 4600 Collective Agreement Unit 2, the Department of Earth Sciences invites qualified applicants to apply to teach the following courses during the **Fall 2025 and Winter 2026 Terms.**

FALL TERM 2025

ERTH 2102 Mineralogy to Petrology (0.5 credit) – Fall Term 2025		**Designed Modality**	**Anticipated TA Support**	**Anticipated Enrollment**
Description	Chemical, optical and crystallographic properties of common rock-forming minerals, with introduction to common mineral assemblages of igneous, sedimentary, and metamorphic rocks. Lectures two hours a week and laboratory three hours a week.	In person	Yes	44
Minimum Requirements	The minimum requirement for this position is a MSc in Earth Sciences. Candidates must have demonstrated expertise and experience in the field of mineralogy and petrology. Preference will be given to candidates with previous teaching experience. The planned mode of delivery for this course includes in-person labs.			

ERTH 2421 A Geological Tour of the National Parks of North America – Fall Term 2025		**Designed Modality**	**Anticipated TA Support**	**Anticipated Enrollment**
Description	An introduction to the geology of North America's National parks, the ultimate awe-inspiring educational experience, and how these parks collectively tell the story of the processes that have shaped the continent.	In person	Yes	386
Minimum Requirements	The minimum requirement for qualified applicants applying to teach ERTH 2421 "A Geological Tour of the National Parks of North America" is normally a M.Sc. degree with expertise in the subject area and previous teaching experience.			

ERTH 3004 Igneous Petrology (0.5 credit) – Fall Term 2025		**Designed Modality**	**Anticipated TA Support**	**Anticipated Enrollment**
Description	Origins and evolution of igneous rocks through partial melting, crystallization, degassing, and assimilation of host rocks. Phase diagrams and classification schemes will be used to provide systematic tools for the description and interpretation of igneous rocks. Lecture three hours per week, a laboratory three hours per week.	In person	Yes	30
Minimum Requirements	The minimum requirement for this position is a PhD in Earth Sciences. Candidates must have demonstrated expertise and experience in the field of igneous petrology and must have teaching experience. The planned mode of delivery for this course will include in-person labs.			

ERTH 3207 Metamorphic Petrology and Processes (0.5 credit) – Fall Term 2025		**Designed Modality**	**Anticipated TA Support**	**Anticipated Enrollment**
Description	Genesis of metamorphic rocks as determined from field, petrographic and geochemical data. Lectures two hours a week, a laboratory three hours a week and a field excursion.	In person	Yes	30
Minimum Requirements	The minimum requirement for this position is a MSc in Earth Sciences. Candidates must have demonstrated expertise and experience in the field of metamorphic petrology. Preference will be given to candidates with teaching experience. The planned mode of delivery for this course will include in-person labs.			

WINTER TERM 2026

ERTH 2312 Paleontology (0.5 credit) – Winter Term 2026		Designed Modality	Anticipated TA Support	Anticipated Enrollment
Description	Introduction to macrofossil and microfossil groups, their paleoenvironmental significance, and principles of evolutionary paleoecology. Lectures two hours a week and a laboratory three hours a week.	In person	Yes	78
Minimum Requirements	The minimum requirement for this position is a PhD in Earth Sciences with a specialization in paleontology. The planned mode of delivery for this course will include in-person labs.			

ERTH 3204 Mineral Deposits (0.5 credit) – Winter Term 2026		Designed Modality	Anticipated TA Support	Anticipated Enrollment
Description	Analysis and interpretation of the geological and geochemical processes responsible for mineral deposit genesis in a global context. Lectures two hours and a laboratory three hours a week	In person	Yes	36
Minimum Requirements	The minimum requirement for this position is a PhD in Earth Sciences. Candidates must have demonstrated expertise and experience in the field of economic or resource geology. Preference will be given to candidates with teaching experience. The planned mode of delivery for this course will include in-person labs.			

ERTH 2404 Engineering Geoscience (0.5 credit) – Winter Term 2026		Designed Modality	Anticipated TA Support	Anticipated Enrollment
Description	Applications of the basic concepts of geology, earth materials and earth processes to practical engineering and environmental science. Topics include rock and soil mechanics, slope stability, hydrogeology, geological hazards, and site investigations. Overview of related geophysical methods. Lectures three hours a week and a laboratory three hours a week.	In person	Yes	168
Minimum Requirements	The minimum requirement for qualified applicants applying to teach ERTH 2404, "Engineering Geoscience:" is a Ph.D. in science or engineering, expertise in the subject area and previous teaching experience. The planned mode of delivery for this course will include in-person labs.			

ERTH 2422 – Drivers of Climate Change Through Geological Time – Winter Term 2026		Designed Modality	Anticipated TA Support	Anticipated Enrollment
Description	A survey of Earth's 4.5-billion-year climate history, focusing on the use of geologic data to understand the drivers of climate change and their impact on the development of the lithosphere, hydrosphere, atmosphere, and biosphere. Course includes experiential learning assignments. Lecture three hours per week; also includes additional online synchronous/asynchronous experiential learning practicum.	In person	Yes	386
Minimum Requirements	The minimum requirement for qualified applicants applying to teach this course is a M.Sc. degree with expertise in the subject area and previous teaching experience.			

A note to all applicants: As per Articles 16.3 and 16.4 in the CUPE 4600 (Unit 2) Collective Agreement, the posted vacancies listed above are first offered to applicants meeting the incumbency criterion. A link to the current CUPE 4600 (Unit 2) Collective Agreement can be found at the Academic Staff Agreements webpage on the Carleton University website.

The course descriptions are available online at: http://calendar.carleton.ca/undergrad/courses/ERTH/

Application Procedures and Deadlines:

Applications, including a cover letter, up-to-date CV, teaching statement, teaching evaluations (if available), and a complete listing of all courses taught within CUPE 4600 Unit 2 bargaining unit at Carleton University, should be sent as a single PDF by **July 10, 2025**, to:

Dr. Fred Gaidies, Chair

c/o Sheila Thayer, Departmental Administrator, Department of Earth Sciences
(sheila.thayer@carleton.ca)

All courses are subject to budgetary approval and the University reserves the right to cancel any courses with insufficient registration.