

# MICROPROGRAM ENVIRONMENTAL DATA SCIENCE

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## Overview

There is an explosion in the availability of geospatial data, ranging from satellite and drone imagery through Google Street View to volunteered data from cell tower records and smartphone apps. The analysis of such data is a rapidly growing industry. In the Environmental Data Science microprogram students will learn the fundamentals of geospatial data analysis, including core statistical concepts and how to work with them in the R statistical programming environment, as well as a suite of advanced techniques specific to analysis of spatial data. After completing the program students will be confident to undertake substantial analysis of many kinds of geospatial data, and will be well prepared to continue their learning through other avenues.

## Admission Requirements

The registration process for a Microprogram depends on your student status.

### Students already admitted and enrolled in a graduate program

Students wishing to pursue a graduate program must apply for, and be admitted to, their graduate program before they enroll in a Graduate Microprogram identified within their existing program.

If you have already enroll in a graduate studies program and would like to add a microprogram to your program of study, contact your faculty's graduate studies office (<https://www.uottawa.ca/graduate-studies/contact-info/>).

### Non-degree students

Students pursuing a Graduate Microprogram, without being admitted to or intending to complete a graduate program, must obtain the prior approval of the academic unit offering the Graduate Microprogram.

Students must meet the following eligibility:

- A four-year Bachelor degree
- or an equivalent diploma

If you would like to enroll in a microprogram without being admitted in a graduate studies program, send an email to the graduate studies office ([artsgrad@uottawa.ca](mailto:artsgrad@uottawa.ca)) and include the following documents:

- CV
- Copies of transcripts from all universities you have attended

## Program Requirements

Students must complete 6 units, consisting of the following two courses:

### Compulsory courses

GEG 6101	Data Analysis and Modelling	3 Units
GEG 6103	Spatial Data Science	3 Units