MICROPROGRAM
ENVIRONMENTAL DATA
SCIENCE

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) 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

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>GEG 6101</td>
<td>Data Analysis and Modelling</td>
<td>3</td>
</tr>
<tr>
<td>GEG 6103</td>
<td>Spatial Data Science</td>
<td>3</td>
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