

# B.Sc. Earth Sciences & Geography: Concentration in Terrain Science

Catalogue Year: 2020-2021

## FIRST YEAR

## SECOND YEAR

## THIRD YEAR

## FOURTH YEAR

FALL

WINTER

FALL

WINTER

FALL

WINTER

FALL

WINTER

**ERTH 1006**  
Exploring Planet Earth

**ERTH 2004**  
Maps, Satellites & Geospatial Revolution

**ERTH 2102**  
Mineralogy to Petrology

**ERTH 2104**  
Igneous Systems, Geochemistry & Processes

**ERTH 3207**  
Metamorphic Petrology & Processes

**ERTH 3205**  
Physical Hydrogeology

1.0 credit **ERTH 4908 Honours Thesis** or 0.5 credit **ERTH 4909 Project**  
With 0.5 credit in an **ERTH 4000 level course**

OR

**GEOG 4906 Honours Research Project**

**MATH 1007**  
Elementary Calculus I

**MATH 1107**  
Linear Algebra I

**ERTH 2314**  
Sedimentation and Stratigraphy

**ERTH 2406**  
Geology & Map Interpretation

**ERTH 3203\***  
Sedimentology

**ERTH 3806**  
Structural Geology

1.0 credit in **ERTH courses at the 4000 level**

**CHEM 1001**  
General Chemistry I  
OR  
**CHEM 1005**  
Elementary Chemistry I

**CHEM 1002**  
General Chemistry II  
OR  
**CHEM 1006**  
Elementary Chemistry II

**GEOG 2014**  
The Earth's Surface

**STAT 2507**  
Introduction to Statistical Modeling I  
OR  
**GEOG 2006**  
Introduction to Quantitative Research

OR  
**ERTH 3206**  
Sedimentary Depositional Systems

**GEOG 3102**  
Geomorphology

**GEOG 4101**  
Two Million Years of Environmental Change

**BIOL 1104**  
Foundations of Biology II

**PHYS 1003**  
Introductory Mechanics & Thermodynamics  
OR  
**PHYS 1007**  
Elementary University Physics I

**PHYS 1004**  
Introductory Electromagnetism & Wave Motion  
OR  
**PHYS 1008**  
Elementary University Physics II

**GEOG 2007**  
Geographic Information Systems

**GEOG 2013**  
Weather and Water

**GEOG 3108**  
Soil Properties

**GEOG 3105**  
Climate & Atmospheric Change

**GEOG 4108**  
Permafrost

**NSCI 1000** or  
Approved course outside the Faculty of Science/Engineering

0.5 credit  
Free Elective

**COMP 1005**  
Introduction to Computer Science I

**ERTH 2802\***  
Field Geology I

0.5 credit  
Free Elective

0.5 credits in  
Advanced Science Faculty Electives

1.5 credits in approved course outside Faculty of Science/Engineering

- Chemistry
- NSCI
- Physics
- Math & Stats
- Biology
- Computer Science
- Earth Sciences
- Geomatics
- Electives
- Geography

### Note:

- Field Courses marked with an \* are held outside of the regular term dates.
- This is a snapshot of the Undergraduate calendar but information can change. Always consult your audit and seek advising if you are off track.
- It is your responsibility to make sure you have the necessary pre-requisite courses before registering. This information can be found in the Undergraduate calendar at: [calendar.carleton.ca/undergrad/](http://calendar.carleton.ca/undergrad/)