

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

Catalogue Year: 2021-2022

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 2013
Weather and Water

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 1004
Maps, Satellites & the geospatial revolution

GEOG 2014
The Earth's Surface

GEOG 3002
Introduction to Remote Sensing

GEOG 3105
Climate & Atmospheric Change

GEOG 4108
Permafrost

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

0.5 credit
Free Elective

GEOG 2007
Points, Lines & Polygons

COMP 1005
Introduction to Computer Science I

GEOG 3108
Soil Properties

0.5 credits in
Advanced Science Faculty Electives

1.5 credits in approved course outside Faculty of Science/Engineering

0.5 credit
Free Elective

ERTH 2802*
Field Geology I

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 advisor 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/

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