

B.Sc. Earth Sciences and Physical Geography

Catalogue Year: 2019-2020

FIRST YEAR

SECOND YEAR

THIRD YEAR

FOURTH YEAR

FALL

WINTER

FALL

WINTER

FALL

WINTER

FALL

WINTER

ERTH 1006
Exploring Planet Earth

GEOG 1010
Global Environmental Systems

ERTH 2102
Mineralogy to Petrology

ERTH 2104
Igneous Systems, Geochemistry & Processes

ERTH 3003
Geochemistry & Geochronology

ERTH 3205
Physical Hydrogeology

1.0 credit **ERTH 4908 Honours Thesis** or 0.5 credit **ERTH 4909 project**

OR

1.0 credit **GEOG 4906 Honours Research Project** or 0.5 credit **GEOG 4005 Directed Studies**

(With **ERTH 4909** and **GEOG 4005** you will need another 0.5 credit course in **ERTH**, **GEOG** or **GEOM** at the 4000 level)

MATH 1007
Elementary Calculus I

MATH 1107
Linear Algebra I

ERTH 2314
Sedimentation and Stratigraphy

ERTH 2406
Geology & Map Interpretation

ERTH 3405
Geophysical Methods

Or
GEOG 3103
Watershed Hydrology

1.0 credit in **ERTH**, **Science GEOG** or **GEOM** 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

GEOG 2013
Weather and Water

ERTH 3203*
Sedimentology
OR
ERTH 3206
Sedimentary Depositional Systems

ERTH 3806
Structural Geology

1.0 credit in **GEOG 3000** level course (see section 8 of major in Undergrad calendar for choices)

PHYS 1007
Elementary University Physics I

PHYS 1008
Elementary University Physics II

***GEOG 1004**
Maps, Stats & Geospatial Rev (in place of **GEOM 2007**)

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

GEOG 3002
Introduction to Remote Sensing

0.5 credits in approved courses outside the Faculty of Science/Engineering

0.5 credits in approved electives (see list in Undergrad calendar)

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

0.5 credit
Free Elective

COMP 1005
Introduction to Computer Science I

0.5 credits in approved courses outside the Faculty of Science/Engineering

1.0 credit in **GEOG 3000** level courses (see section 8 of major in Undergrad calendar for choices)

1.0 credit in **Science GEOG** or **GEOM** at 2000 level or higher

0.5 credits in approved courses outside the Faculty of Science/Engineering

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 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/

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