

B.Sc. Earth Sciences with Concentration in Geophysics

Catalogue Year: 2024-2025

FIRST YEAR

SECOND YEAR

THIRD YEAR

FOURTH YEAR

FALL

WINTER

FALL

WINTER

FALL

WINTER

FALL

WINTER

ERTH 1006
Exploring Planet Earth

ERTH 1009
The Earth System Through Time

ERTH 2102
Mineralogy to Petrology

ERTH 2104
Igneous Systems, Geochemistry & Processes

ERTH 3003
Geochemistry & Geochronology

ERTH 3204
Mineral Deposits

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

MATH 1004
Calculus for Engineering or Physics

MATH 1104
Linear Algebra for Engineering or Science

ERTH 2105
Geodynamics

ERTH 2406
Geology & Map Interpretation

ERTH 3405
Geophysical Methods

ERTH 3205
Physical Hydrogeology

0.5 credit Free Elective

ERTH 4707
Engineering Seismology

CHEM 1001
General Chemistry I

CHEM 1002
General Chemistry II

ERTH 2314
Sedimentation and Stratigraphy

ERTH 2802*
Field Geology I

ERTH 3203*
Sedimentology

OR
ERTH 3206
Sedimentary Depositional Systems

ERTH 3806
Structural Geology

3.0 credits from **ERTH**, **MATH** or **PHYS** (see section 13 of non-major in Undergrad calendar)

PHYS 1001
Foundations in Physics 1
OR
PHYS 1003
Introductory Mechanics & Thermodynamics
OR
PHYS 1007
Elementary University Physics I

PHYS 1002
Foundations in Physics 1
OR
PHYS 1004
Introductory Mechanics & Thermodynamics
OR
PHYS 1008
Elementary University Physics I

ERTH 2004
Maps, Stats & Geospatial Revolution

MATH 1005
Differential Equations & Infinite Series for Engineering or Physics

0.5 credit Free Elective

STAT 2507
Introduction to Statistical Modeling I

1.5 credits from **ERTH**, **MATH** or **PHYS** (see section 13 of non-major 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

OR
COMP 1006
Introduction to Computer Science II

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

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/