

# B.Sc. Earth Sciences with Concentration in Vertebrate Paleontology and Paleoecology

## 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 2312**  
Paleontology

**ERTH 3003**  
Geochemistry & Geochronology

**ERTH 3111**  
Vert Evolution: Mammals  
**AND**  
**ERTH 3112**  
Vert Evolution: Fish  
(offered in alternating years)

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

**MATH 1007**  
Elementary Calculus I

**MATH 1107**  
Linear Algebra I

**ERTH 2105**  
Geodynamics

**ERTH 2406**  
Geology & Map Interpretation

**ERTH 3203\***  
Sedimentology

**OR**

**ERTH 3206**  
Sedimentary Depositional Systems

**ERTH 3113**  
Geology of Human Origins

**ERTH 4003**  
Directed Studies

**OR**

**ERTH 4808**  
Vertebrate Paleo Field Camp

**ERTH 3111**  
Vert Evolution: Mammals  
**AND**  
**ERTH 3112**  
Vert Evolution: Fish  
(offered in alternating years)

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

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

**ERTH 2314**  
Sedimentation and Stratigraphy

**STAT 2507**  
Introduction to Statistical Modeling I

**0.5 credit**  
Free Elective

**1.0 credit from courses in BIOL, GEOM, GEOG or EARTH**  
(please see section 7 of major in Undergrad calendar)

**2.0 credits from courses in BIOL, GEOM, GEOG or EARTH at 4000 level**  
(please see section 7 of major in Undergrad calendar)

**PHYS 1007**  
Elementary University Physics I

**0.5 credit**  
Free Elective

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

**BIOL 2001**  
Animals: Form & Function

**0.5 credit**  
Science Faculty Elective (not EARTH)

**1.0 credit in approved courses outside Faculty of Science/Engineering**

**BIOL 1103**  
Foundations of Biology I

**BIOL 1104**  
Foundations of Biology II

**BIOL 2600**  
Ecology

**BIOL 2104**  
Introductory Genetics

**1.0 credit in approved courses outside Faculty of Science/Engineering**  
(may include NSCI 1000)

- 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 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/](http://calendar.carleton.ca/undergrad/)