

# Environmental Earth Sciences Major Requirements (87)

## Foundation Courses

- BIOL 108 - Introduction to Biological Diversity
- CHEM 101 - Introductory University Chemistry I
- CHEM 102 - Introductory University Chemistry II
- EAS 100 - Planet Earth
- EAS 105 - The Dynamic Earth Through Time
- STAT 151 - Introduction to Applied Statistics I

### 3 units from:

- MATH 117 - Honors Calculus I  
MATH 144 - Calculus for the Mathematical and Physical Sciences I \_\_\_\_\_

### 3 units from:

- MATH 118 - Honors Calculus II  
MATH 146 - Calculus for the Mathematical and Physical Sciences II \_\_\_\_\_

### 3 units from:

- PHYS 124 - Particles and Waves  
PHYS 144 - Newtonian Mechanics \_\_\_\_\_

### 3 units from:

- PHYS 126 - Fluids, Fields, and Radiation  
PHYS 146 - Fluids and Waves  
PHYS 181 - Relativity, Electricity and Magnetism \_\_\_\_\_

## Senior Courses

- BIOL 208 - Principles of Ecology
- EAS 221 - Introduction to Geographical Information Systems and Remote Sensing
- EAS 222 - Stratigraphy and Sedimentation
- EAS 224 - Mineralogy I
- EAS 225 - Earth Surface Processes and Landforms
- EAS 233 - Geologic Structures
- EAS 234 - Geology Field School
- EAS 250 - Biogeography
- EAS 320 - Geochemistry I
- EAS 323 - Introduction to Hydrogeology
- EAS 324 - Quaternary Geoscience and Terrain Analysis
- EAS 354 - Environmental Earth Science Field School
- EAS 457 - Global Change
- EAS 458 - Cold Regions Geoscience (See Note 1)
- GEOPH 223 - Environmental Geophysics
- HGEO 250 - Sustainable Development and Environmental Management

### Notes:

1. EAS 458 may be taken more than once for credit.
2. To fulfill the knowledge requirements for registration as a professional geoscientist (P. Geo.) through APEGA (Association of Professional Engineers and Geoscientists of Alberta), meet with an EAS program advisor to discuss appropriate course selections. Current syllabus and registration information is available from the Department of Earth & Atmospheric Sciences or APEGA. Full information is available at [www.apega.ca](http://www.apega.ca).

### 3 units from:

- EAS 212 - The Oceans  
EAS 270 - The Atmosphere \_\_\_\_\_

### 3 units from:

- EAS 327 - Environmental Instrumentation  
EAS 351 - Environmental Applications of Geographical Information Systems \_\_\_\_\_  
EAS 451 - Digital Remote Sensing

### 3 units from:

- EAS 425 - Contaminant Hydrogeology  
EAS 468 - Geochemical Processes \_\_\_\_\_

- COMM
- COMM
- IND
- BO\_\_
- BO\_\_
- BSBS
- BSFS
- BSSS
- LAB