

# Honors Geology Requirements (93)

## Foundation Courses

- CHEM 101 - Introductory University Chemistry I
- CHEM 102 - Introductory University Chemistry II
- EAS 100 - Planet Earth
- EAS 105 - The Dynamic Earth Through Time

### 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

- 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 230 - Introduction to Invertebrate Paleontology
- EAS 232 - Mineralogy II
- EAS 233 - Geologic Structures
- EAS 234 - Geology Field School
- EAS 320 - Geochemistry I
- EAS 323 - Introduction to Hydrogeology
- EAS 331 - Igneous Petrology
- EAS 332 - Metamorphic Petrology
- EAS 333 - Advanced Geology Field School
- EAS 336 - Sedimentary Systems
- EAS 426 - Undergraduate Thesis (6 units)

**Notes:**  
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 364 - Basin Resources and Subsurface Methods  
EAS 368 - Ore Deposits Geology \_\_\_\_\_

### 6 units from:

GEOPH 210 - Structure, Dynamics and Evolution of the Earth and Planetary Interiors  
GEOPH 223 - Environmental Geophysics  
GEOPH 224 - Geophysical Exploration Techniques  
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### 12 units from:

EAS at the 400-level \_\_\_\_\_  
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- COMM
- COMM
- IND
- BO\_\_
- BO\_\_
- BSBS
- BSFS
- BSSS
- LAB