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# Undergraduate Environmental Geosciences Minor Program Requirements



**Department of Geosciences**  
**Oregon State University**  
104 Wilkinson Hall  
541-737-1201

Name: \_\_\_\_\_ Advisor: \_\_\_\_\_

OSU Email Address: \_\_\_\_\_ Date: \_\_\_\_\_

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The Environmental Geosciences minor provides a foundation in geology and geography. The minor is a good choice if your career path intersects earth science issues (e.g., natural resources, civil engineering, forestry, business, etc.). The minor also serves as a specialization for the Environmental Sciences BS.

Below are the program requirements that need to be completed in order to earn a minor in Environmental Geosciences.

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## **I. CORE REQUIREMENTS (16-20 credits)**

### Earth Science Core Courses (8 credits)

Choose one of the courses below for a total of four credits.

- \_\_\_\_\_  GEO 101 The Solid Earth (4)
- \_\_\_\_\_  GEO 201 Physical Geology (4)

Choose one of the courses below for a total of four credits.

- \_\_\_\_\_  GEO 102 The Surface of the Earth (4)
- \_\_\_\_\_  GEO 202 Earth System Science (4)
- \_\_\_\_\_  GEO 221 Environmental Geology (4)

### Geosciences Core Courses (11 credits)

- \_\_\_\_\_  GEO 301 Map and Image Interpretation (4)
- \_\_\_\_\_  GEO 322 Surface Processes (4)
- \_\_\_\_\_  GEO 409 Contemporary Earth Science Issues (3)

## **II. TRACKS (8-12 credits all in one of the following four tracks)**

### **Track A: Humans, Resources and Planning**

- \_\_\_\_\_  GEO 306 Minerals, Energy, Water and the Environment (3)
- \_\_\_\_\_  GEO 307 Geology of National Parks (3)
- \_\_\_\_\_  GEO 309 Environmental Justice (3)
- \_\_\_\_\_  GEO 311 20<sup>th</sup> Century United States Environmental Policy (3)
- \_\_\_\_\_  GEO 335 Water Science and Policy (3)
- \_\_\_\_\_  GEO 350 Population Geography (3)
- \_\_\_\_\_  GEO 420 Geography of Resource Use (3)
- \_\_\_\_\_  GEO 423 Land Use (3)
- \_\_\_\_\_  GEO 424 International Water Resource Management (3)
- \_\_\_\_\_  GEO 425 Water Resource Management in the United States (3)
- \_\_\_\_\_  GEO 426 Third World Resource Development (3)
- \_\_\_\_\_  GEO 440 Economic Geology (4)
- \_\_\_\_\_  GEO 452 Principles and Practices of Rural and Resource Planning (3)
- \_\_\_\_\_  GEO 453 Resource Evaluation Methods/EIS (3)

**Track B: Surface Processes and Climate**

- \_\_\_\_\_  GEO 308 Global Change and Earth Science (3)
- \_\_\_\_\_  GEO 323 Climatology (4)
- \_\_\_\_\_  GEO 324 Geography of Life: Species Distribution and Conservation (4)
- \_\_\_\_\_  GEO 431 Applied Climatology (3)
- \_\_\_\_\_  GEO 432 Applied Geomorphology (3)
- \_\_\_\_\_  GEO 439 Topics in Physical Geography (3)
- \_\_\_\_\_  GEO 451 Environmental Site Planning (3)
- \_\_\_\_\_  GEO 464 Geoscience Interpretation (4)
- \_\_\_\_\_  GEO 582 Geomorphology of Forests and Streams (3)
- \_\_\_\_\_  GEO 470 Stratigraphy and Sedimentology (4)
- \_\_\_\_\_  GEO 481 Glacial Geology (4)

**Track C: Geology and Geologic Hazards**

- \_\_\_\_\_  GEO 306 Minerals, Energy, Water and the Environment (3)
- \_\_\_\_\_  GEO 310 Earth Minerals I: Mineralogy (4)
- \_\_\_\_\_  GEO 315 Earth Minerals II: Petrology (4)
- \_\_\_\_\_  GEO 340 Structural Geology (4)
- \_\_\_\_\_  GEO 427 Volcanology (4)
- \_\_\_\_\_  GEO 430 Geochemistry (3)
- \_\_\_\_\_  GEO 451 Environmental Site Planning (3)
- \_\_\_\_\_  GEO 458 Plate Tectonics of Continental Collision (3)
- \_\_\_\_\_  GEO 461 Geology of Earthquakes (3)
- \_\_\_\_\_  GEO 463 Geophysics and Tectonics (3)
- \_\_\_\_\_  GEO 464 Geoscience Interpretation (4)

**Track D: Water**

- \_\_\_\_\_  GEO 306 Minerals, Energy, Water and the Environment (3)
- \_\_\_\_\_  GEO 335 Introduction to Water Science and Policy (3)
- \_\_\_\_\_  GEO 424 International Water Resource Management (3)
- \_\_\_\_\_  GEO 425 Water Resources Management in the US (3)
- \_\_\_\_\_  GEO 430 Geochemistry (3)
- \_\_\_\_\_  GEO 451 Environmental Site Planning (3)
- \_\_\_\_\_  GEO 487 Hydrogeology (4)
- \_\_\_\_\_  FE 430 Watershed Processes (4)
- \_\_\_\_\_  CE 412 Hydrology (3)