# EARTH SCIENCES (ERTH)

## GEOPHYSICS TRACK

Geophysics track students investigate physical processes to understand natural hazards, Earth structure, water and natural resources. Students perform computational analyses and test models related to diverse concepts such as tectonics and climate change.

## TOP FIVE REASONS TO STUDY THIS MAJOR

1. Understand the physical processes that drive Earth system dynamics.
2. Learn data science using real-world data sets; build environmental sensors.
3. Conduct field investigations and solve problems related to natural hazards.
4. Develop technological skills for cutting-edge research.
5. Prepare for a practical career or further academic study.

## SKILLS YOU'LL DEVELOP

- Natural hazards assessment & risk reduction
- Data science & computation
- Sensor design
- Science policy & communication
- Field geophysics
- Remote sensing
- Numerical modeling
- Environmental & climate change science

## ALUMNI OCCUPATIONS

Where will your degree take you?

- Geophysicist
- Data Scientist
- Field Engineer
- Planetary Scientist
- Hydrologic Technician

# COURSES YOU WILL TAKE

### 1ST YEAR

ERTH **315**

PHYS **251-253**

MATH **251-253**

### 2ND YEAR

ERTH **363**

CH **221, 222**

MATH **256**

### 3RD YEAR

ERTH **455**

MATH **281, 282**

PHYS **351-353**

### 4TH YEAR

Two from ERTH **441-470**

Track Electives

## CORE ED REQUIREMENTS

Core Education is approximately **71-83 credits** depending on transfer credits and placement scores:

https://catalog.uoregon.edu/genedcourses/

Scan the QR code for more on Core Ed Course Requirments!

### MAJOR CREDITS

| | |
|---|---|
| Required | 76 Credits |
| Electives | 28 Credits |
| **Total** | **104 Credits** |

BS or BA DEGREE MINIMUM = **180 Total Credits**

# MAKING THE MAJOR YOURS

### SPECIALIZED COURSES

- Seismology
- Fluid Dynamics
- Tectonics
- Earth Monitoring
- Hydrogeology
- Sensor Design & Environmental Monitoring
- Environmental Geomechanics
- Signal Processing

### ADD A MINOR OR CERTIFICATE

- Data Science
- Computer Science
- Physics
- Mathematics
- Envrionmental Science
- Environmental Studies
- Geography
- Biology
- Chemistry

## EXPERIENTIAL LEARNING

https://cas.uoregon.edu/experiential-learning

Scan the QR code for more!

## SCHOLARSHIPS

https://cas.uoregon.edu/scholarships

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