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

- Understand the physical processes that drive Earth system dynamics.
- Learn data science using real-world data sets;build environmental sensors.
- Conduct field investigations and solve problems related to natural hazards.
- Develop technological skills for cutting-edge research.
- 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

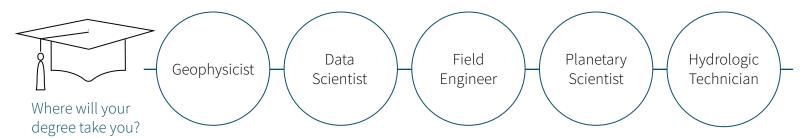
Field geophysics

Remote sensing

Numerical modeling

Environmental & climate change science

ALUMNI OCCUPATIONS





COURSES YOU WILL TAKE

1ST YEAR 2ND YEAR

FRTH 315 FRTH 363

PHYS **251-253** CH **221**, **222**

MATH 251-253 **MATH 256**

3RD YEAR **4TH YEAR**

ERTH 455 Two from ERTH **441-470**

Track Electives MATH 281, 282

PHYS **351-353**

MAJOR CREDITS Required 76 Credits **Electives** 28 Credits

> Total 104 Credits

CORE ED REQUIREMENTS

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



https://catalog.uoregon.edu/ aenedcourses/

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

BS or BA DEGREE MINIMUM =

180 Total Credits

MAKING THE MAJOR YOURS

SPECIALIZED COURSES ADD A MINOR OR CERTIFICATE

Seismology Data Science

Computer Science Fluid Dynamics

Physics **Tectonics**

Mathematics Earth Monitoring

Envrionmental Science Hydrogeology

Environmental Studies Sensor Design &

Environmental Monitoring Geography

Environmental Geomechanics Biology

Signal Processing Chemistry

EXPERIENTIAL LEARNING



experiential-learning

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SCHOLARSHIPS



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