

## Geophysics Minor (GPHYS)

University Park, College of Earth and Mineral Sciences (GPHYS)  
Professor Kevin Furlong, Department of Geosciences

The Geophysics minor provides the opportunity for students from outside the Geosciences to apply the physics, quantitative, and technical skills they are developing in their major program to the geophysical aspects of Earth Science, including seismology, volcanology, natural hazards, environmental geophysics, and petroleum and mineral exploration. For students majoring in Geosciences, the completion of the minor will strengthen their physics/quantitative background and develop links between theory and application for these technical and quantitative skills. The minor will prepare students for graduate programs in geophysics, and/or employment opportunities in the environmental and exploration industries. The minor consists of 18-21 credits satisfying the requirements below.

A grade of C or better is required for each course in the minor.

Recommended Scheduling by Semester Standing (e.g., Sem: 1-2)

### **REQUIREMENTS FOR THE MINOR:** 18-21 credits

#### **PRESCRIBED COURSES** (4 credits)

*Non-Geoscience Majors (i.e., Math, Physics, Engineering):*

GEOSC 203 (4) (Sem: 3-7)

*Geoscience Majors:*

PHYSICS 212 (4) (Sem: 3-6)

#### **ADDITIONAL COURSES** (14-17 credits)

*Non-Geoscience Majors (i.e., Math, Physics, Engineering):*

Select one from: GEOSC 001 (3), GEOSC 010 (3), GEOSC 040 (3), GEOSC 109H (3), EARTH 002 (3),  
EARTH 101 (3), EARTH 105 (3), EARTH 106 (3) (Sem: 1-4)

Select 3-4 courses (11+ credits) from: GEOSC 402Y (3), GEOSC 434 (3), GEOSC 452 (3), GEOSC 483  
(3), GEOSC 487 (3), GEOSC 488 (4), GEOSC 489 (4) (Sem: 5-8)

*Geoscience Majors: (Geoscience majors may not double-count these courses in their major)*

Select one from: MATH 220 (3), or MATH 230 (4), or MATH 231 (2) plus MATH 232 (2), or MATH 250  
(3), or MATH 251 (4) (Sem: 3-6)

Select 3-4 courses (11+ credits) from: GEOSC 402Y (3), GEOSC 434 (3), GEOSC 452 (3), GEOSC 483  
(3), GEOSC 487 (3), GEOSC 488 (4), GEOSC 489 (4) (Sem: 5-8)