Master of Science in Geoscience with an Option in Geophysical Engineering

Recommended Graduate Course Work:  
*may depend on student preparation

Undergraduate Major

Physics  
Petroleum Engineering  
Electrical Engineering  
Computer Science  
Mathematics  
Statistics

Geology

Geophysics

- PHSX 453 - Methods of Theoretical Physics (3)
- GEOE 457 - Subsurface Methods In Petroleum Geology (3)
- GEOP 401 - Introduction to Seismic Processing (3)
- GEOP 446 - Applied Linear Systems (3)
- GEOP 450 - Inversion, Experiment Design & Interpretation (3)
- GEOP 508 - Problems In Seismic Prospecting (3)
- GEOP 509 - Problems in Gravity & Magnetic Prospecting (3)
- GEOP 510 - Problems In Electrical Prospecting (3)
- GEOP 594 - Geophysics Graduate Seminar (1)
- GEOP 595 - Advanced Topics In Geophysics (var)
- GEOP 599 - Thesis Research (8)
- T.C. 5150 - Graduate Writing Seminar (1)

- PHSX 453 - Methods of Theoretical Physics (3)
- GEOE 403 - Structural Geology for Engineers (3)
- GEOE 457 - Subsurface Methods In Petroleum Geology (3)
- GEOP 401 - Introduction to Seismic Processing (3)
- GEOP 446 - Applied Linear Systems (3)
- GEOP 450 - Inversion, Experiment Design & Interpretation (3)
- GEOP 508 - Problems In Seismic Prospecting (3)
- GEOP 509 - Problems in Gravity & Magnetic Prospecting (3)
- GEOP 510 - Problems In Electrical Prospecting (3)
- GEOP 594 - Geophysics Graduate Seminar (1)
- GEOP 595 - Advanced Topics In Geophysics (var)
- GEOP 599 - Thesis Research (8)
- T.C. 5150 - Graduate Writing Seminar (1)

Required Number of Credits (30 Credits)

- 20 Class Credits  
  - ≥ Ten 5XXX Credits  
  - Remaining 4XXX Credits
- GEOP 594 – Geophysics Graduate Seminar (1)
- GEOP 599 – Thesis Research (8)
- T.C. 5150 – Graduate Writing Seminar (1)

Center for Shallow Electromagnetics and Spatial Technologies

Geophysical Engineering  
Montana Tech of the University of Montana

STF  
Spatial Technologies Facility

SEEF  
Shallow Electromagnetic and Electrical Resistivity Facility