Core courses*:

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

*may depend on student preparation

OTHER COURSES

Geophysics courses:

GEOP 302 - Elements of Geophysics (3)
GEOP 421 - Geophysical Field Camp (6)
GEOP 430 - Introduction to Artificial Neural Networks (3)
GEOP 595 - Advanced Topics In Geophysics (var)

Physics courses:

PHSX 423 - Electricity & Magnetism I (3)

Geology courses:

GEO 101 - Introduction to Physical Geology (3)
GEO 204 - Introduction to Mineralogy-Petrology (3)
GEO 257 - Sedimentology Petroleum Geology (3)
GEO 259 - Sedimentology-Stratigraphy Lab (1)
GEOE 406 - Geomorphology-Photogeology (3)
GEOE 410 - Mining Geology (3)
GEOE 411 - Metallic Ore Deposits (3)
GEOE 420 - Hydrogeology For Engineers (3)
GEOE 422 - Groundwater Flow Modeling (3)
GEOE 429 - Field Hydrogeology (3)
GEOE 440 - Engineering Geology (3)
GEOE 457 - Subsurface Methods In Petroleum Geology (3)
GEOE 501 - Montana Geology (2 or 3)
GEOE 520 - Advanced Hydrogeology (3)
GEOE 528 - Contaminant Transport (3)
GEOE 531 - Acid Rock Drainage (3)
GEOE 532 - Geochemical Modeling (2)
GEOE 533 - Hydro-Geochemistry (3)
GEOE 534 - Isotope Geochemistry (3)
GEOE 540 - Applied Statistics & Experimental Design (3)
GEOE 541 - Advanced Engineering Geology (3)

**Petroleum courses:**

PET 348 - Petroleum Well Logging (3)
PET 404 - Reservoir Engineering (3)
PET 410 - Reservoir Simulation (3)
PET 426 - Reservoir Characterization (4)
PET 427 - Reservoir Characterization Lab (1)
PET 446 - Petroleum Project Evaluation (3)
PET 5040 - Advanced Reservoir Engineering (var)
PET 5110 - Advanced Reservoir Simulation (3)

**Math courses:**

M 333 - Matrices & Linear Algebra (3)
M 410 - Numerical Computing for Engineering & Science (3)
M 411 - Advanced Differential Equations (2)

M 426 - Mathematical Modeling (3)

**Computer Science courses:**

CSCI 117 - Programming with Matlab (3)

CSCI 446 - Artificial Intelligence (3)