Geology Major

Required Courses:

___ Geol 151 (4) Introduction to Geology or ___ Geog 120 (4) Earth Systems
___ Geol 152 (4) Historical Geology (req: 151 or 120)
___ Geol 212 (4) Structural Geology (req: 152 or concurrent)
___ Geol 215 (4) Mineralogy and Optical Mineralogy (req: 151 and Chem 103)
___ Geog 252 (4) Geomorphology (req: 120 or 151)
___ Geol 316 (4) Igneous and Metamorphic Petrology (req: 215)
___ Geol 317 (4) Sedimentation and Stratigraphy (req: 215 or concurrent)
___ Geol 387 (1) Geology as a Vocation (req: junior or senior status in a major concentration in geology or permission of instructor)
___ capstone (3) (typically IDIS 310 or ENST 395)

Two electives from:

___ Geog 181 (5) First Year Research in Earth Sciences: Dunes (first year students only)
___ Geol 251 (4) Oceanography (req: highschool chemistry/sophomore standing)
___ Geol 304 (3) Geochemistry (req: 215 or 151 plus Chem 104 or permission)
___ Geol 312 (4) Environmental Geology (req: 252)
___ Geol 313* (4) Paleontology (req: 152, 230 or an approved biology course)
___ Geog 322 (4) Coastal Geomorphology (req: 252)
___ Geol 325 (4) Hydrogeology
___ Geol 351* (3) Geologic Field Mapping (includes 2 weeks in Montana in May)
___ Geol 390 (2-4) Independent Study (req: permission of instructor)
___ Geol 395*-396* (2-4) Research in Geology (req: permission of geology faculty)
___ Geog 261* (4) GIS & Cartography
___ Geog 361 (4) Advanced Geographic Information Systems (req: Completion of Geog 261 with a grade of C or better)
___ An approved interim course ______________________________________

Required Cognates:

___ Chem 103 (4) General Chemistry I
___ Math 143 (4) Introduction to Probability and Statistics
   OR Math 171 (4) (req: 4 yrs college prep math, excluding stats courses OR Math 110, and results of calculus readiness test administered during orientation)

*recommended for career or graduate study in geology, along with the following electives:

___ Chem 104 or Engr 106 ___ Phys 133 ___ Phys 134
___ Math 172 or 132 ___ Engl 261 ___ CompSci 106

Students who plan to go for graduate study must have 2 years of General Chem and 1 year of Calculus.

Last updated: 27 October 2014