

Recommended Geology Graduate Courses in Tectonics & Solid Earth Processes

- *Geophysics*

GEO 5620/6620 - Global Geophysics (3)

GEO 5640/6640 - Introduction to Seismology (3)

GEO 5670/6670 - Inverse Theory (3)

GEO 5660/6660 - Applied Geophysics (4)

GEO 5690/6690 - Geodynamics (3)

GEO 6590/7590 - Geodesy & Crustal Deformation (3)

GEO 6600/7600 - Graduate Seminar in Geophysics (Signal Analysis) (3)

- *Igneous Petrology & Geochemistry*

GEO 5xxx/6xxx - Isotopes I – Unstable Isotopes (2)

GEO 5xxx/6xxx - Isotopes II – Stable Isotopes (2)

GEO 5360/6360 - Volcanology (3)

GEO 5420/6420 - Metallic Mineral Deposits (4)

GEO 5500b - Advanced Igneous Petrology (4)

GEO 5550 - Geochemical Application of Electron Microprobe and X-Ray Fluorescence Analysis (4)

GEO 5600 - Geochemistry (3)

GEO 6190 - Aqueous Geochemistry (3)

GEO 6200/7200 - Topics in Low Temperature Geochemistry (CO₂ sequestration, geothermal, shale gas) (3)

GEO 6300/7300 - Graduate Seminar in Petrology

GEO 6580/7580 - Geochronology and Thermochronology (3)

- *Structure & Tectonics*

GEO 5530 - Petroleum Systems (3)

GEO 5560 - Subsurface Analyses: Principles and Techniques (2)

GEO 6700/7700 - Graduate Seminar in Structural Geology (Applied Petroleum Geology) (2)

GEO 5610/6610 - Cenozoic Tectonics of Western North America (3)

GEO 5630 - Photogeology and Image Analysis (3)

GEO 6250/7250 - Mechanics and Processes in Earth Sciences (3)