

Course Announcement:
GEO 522
Metamorphic Terrain Analysis
Offered Spring 2010, 3 credits



Professor: Julie Baldwin (jbaldwin@mso.umt.edu)

Class meeting: Wednesday 2:10-5:00 PM

Prerequisites: College Chemistry (CHEM141/143 or equivalent)
and undergraduate Igneous & Metamorphic Petrology

Description: Introduction to techniques used to analyze burial and uplift histories of metamorphic terrains. Topics include: radiometric dating and thermochronology, isotope and trace element geochemistry, geothermobarometry, quantitative thermodynamic modeling of pressure-temperature paths, heat flow and the thermal structure of orogenic belts. Class consists of a combination of lectures, problem sets, and class projects utilizing a range of software tools.