CONTINENTAL TECTONICS
GEO 382T/GEO 339T
Fall, 2012

Instructor: Mark Cloos and Daniel Stockli

Office: GEO 6.112  GEO 5.224
Phone: 471-4170   475-6037

Office Hours: Anytime my door is open or when you catch us in the hallway

Lecture: TTH 2:00-3:30  GEO 2.202
          27530  GEO 339T
          27745  GEO 382T

Text: None required –
      Numerous handouts, some books/papers on reserve

Prerequisite: Structural Geology (GEO 428) or equivalent course with a grade of 
C and consent of instructor.

Topics Include: Geologic principles and early tectonic theories (3 lectures)
                New observations leading to plate tectonic theory (3)
                Key ideas in the plate tectonic revolution of the 1960s (4)
                Origin and structure of the Earth (2)
                Ocean spreading ridges and ophiolites (3)
                Rifting, core complexes and passive margins (3)
                Subduction zones, trenches and volcanic arcs (3)
                Accretionary complexes, subduction zone seismicity (3)
                Collisional orogenesis (2)
                Transform margins (2)

Grade: 1) two, one-page reviews of papers found in journals on the new issue 
       shelf of the library (excluding Geology, GSA Today, EOS, 
       Leading Edge). Reviews due September 15 and November 15.
       2) review a pre-2005 UT MS thesis or PhD dissertation: Due October 15 
       3) 15± page NSF-style research proposal. (UG can write term paper).
       4) 15 minute class presentation on research proposal/paper. 
       5) Mid-term exam. TBD 
       6) Final exam (3 hr). Friday, December 14, 9:00-12:00 noon

Course Objective: To understand how different tectonic environments work.

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leadership, individual opportunity, and responsibility. Each member of the university is 
expected to uphold these values through integrity, honesty, trust, fairness, and respect 
toward peers and community."