CONTINENTAL TECTONICS GEO 382T/GEO 339T Fall, 2011

Instructor:	Mark Cloos
Office: Phone:	GEO 6.112 471-4170
Office Hours:	Anytime my door is open or when you catch me in the hallway
Lecture:	TTH 2:00-3:30 GEO 2.202 27545 GEO 339T 27735 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)
2) re 3) 1. 4) 1. 5) M	 wo, one-page reviews of papers found in journals on the new issue shelf of the library (excluding <i>Geology, GSA Today, EOS, Leading Edge</i>). Reviews due September 15 and November 15. eview of a UT MS thesis or PhD dissertation: Due October 15 5± page NSF-style research proposal. (UG can write term paper). 5 minute class presentation on research proposal/paper. Iid-term exam. TBD inal exam (3 hr). Monday, December 12, 9:00-12:00 noon
Course Objective: To understand how different tectonic environments work	

Course Objective: To understand how different tectonic environments work.

"The core values of The University of Texas at Austin are learning, discovery, freedom, 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."