GEO 582.01: Mechanics of the Lithosphere

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GEO582: Mechanics of the Lithosphere

Instructor
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Prerequisites
This course requires graduate standing and previous course work in classical mechanics, geophysics, and tectonics.

Summary
This is a graduate level seminar focused on recent scientific developments in continental tectonics. We will read recent and classic papers both on the measurement and theory of continental deformation from tectonic forcing. We will emphasize materials directly relevant to the research goals of each student.

Expectations
Course grade will be determined by class participation and a final project demonstrating use of the course concepts on a problem relevant to the student’s research.

Schedule
August 29: no class meeting; assignment and expectations posted

September 5: introduction

September 12:

September 19:

September 26: no class

October 3:
October 10:
Hammond, W., G. Blewitt, and C. Kreemer (2011) Block modeling of crustal deformation of the northern Walker Lane and Basin and Range from GPS velocities, J. Geophys. Res. 166.

October 17:

October 24:

October 31:
Reading TBD

November 7:
Reading TBD

November 14:
Reading TBD

November 21:
Reading TBD

December 5:
Reading TBD