

Tentative Syllabus (EAS 4630/6311)
Fall 2005

Week 1 and 2: Introduction, composition of Earth, plate tectonics, and evolution of earth (What do we know?) (August 22-September 2)

Week 3: Math review-scalars, vectors, tensors, partial differentiation, and vector differential operators. (September 7-9)

Weeks 4-6: Stress-strain, elasticity, elastic wave propagation, earth structure and earthquakes (September 12-30)

Weeks 7: Gravity and the geoid (October 3-7)

Week 8: Finish gravity and geoid; review and Mid-term exam (October 10-14)

Week 9: Fall Break-October 17-18

Week 9+-11: Earth's magnetic field, rock magnetism, and paleomagnetism (October 19-November 4)

Week 12-14: Heat flow, convection and geodynamics (November 7-23)

Week 15: Integration and review (Earth evolution revisited?) (November 28-December 2)

Week 16: Student presentations (December 5-9)

Week 17: Student presentations or Final exam (December 12-16)