

Earth Science (ENV 1050) Topics – 2

Seismology

Asthenosphere
Benioff Zone
Elastic Rebound Theory
Focus & Epicenter
L: Surface Wave
P: Compressional, Primary Body Wave
S: Shear, Secondary Body Wave
Lithosphere
Modified Mercalli Intensity Scale
Moho
Reflect, Refract, Transmitted, Stop
Richter Scale
Seismic Waves
Tsunamis
Zoned, Layered, Differentiated Earth

Gravity

Density
Gravity Anomalies
Isostasy
Oceanic & Continental Crust
Specific Gravity

Plate Tectonics

Accretion
Active & Passive Continental Margins
Age
Asthenosphere
Convergent
Divergent
Transcurrent
Fit of The Continents
Heat Flow
Lithosphere
Mantle Plumes
Ophiolite
Relative & Absolute Motion
Seismic & Aseismic Zones
Subduction & Obduction
Transform Faults
Wilson Cycle

Magnetism

Apparent Polar Wandering
Curie Point
Declination & Inclination
Geomagnetic Reversals
Northern (and Southern) Lights
Orientation of Geomagnetic Field
Secular Variation
Source of Earth's Magnetic Field
Thermal & Depositional Remanent Magnetism

Igneous Rocks

Batholith & Stock
Bowen's Reaction Series
Diorite & Andesite
Gabbro & Basalt
Granite & Rhyolite
Calderas
Cinder Cone
Composite Volcano
Fissure Eruption
Flood Basalt
Chilled Margins & Baked Zones
Continuous Re-Equilibration
Crystallization
Fractional Crystallization
Discontinuous & Continuous Series
Lahar
Lava Flows
Magma Sources
Nuee Ardente
Pahoehoe & Aa
Phreatic Eruption
Pillow Basalt
Plutonic: Intrusive, Phaneritic
Volcanic: Extrusive, Aphanitic
Pyroclastic
Shield Volcano
Sill & Dike
Stoping & Exotics
Tuff
Viscosity