

*EAS 233 Geologic Structures and Maps: Synopsis of Topics.***I. Structures****A. What are structures?****B. Primary and secondary structures****1. Primary structures****2. Secondary structures**

a) Brittle structures: fractures

b) Ductile structures: flow

**C. Scales of structure****1. Microscopic****2. Mesoscopic / Outcrop scale****3. Macroscopic / Map scale**

a) Topographic and geologic maps

b) Map scales and representative fractions

c) Topographic profiles and cross sections

d) Vertical exaggeration

**D. Levels of structural analysis****1. Descriptive/Geometric****2. Kinematic****3. Dynamic**