

TOPIC OUTLINE

Wks	Date	Lecture Topic	Reading
1-2	Jan. 22 Jan. 29	General Principles & Tectonically Driven Disasters Syllabus; General Principles <ul style="list-style-type: none"> • Hazard, Disaster, Catastrophe • Geologic controls & cycles • Prediction, risk & human factors • <i>Hazards City Assignment #1 (partially in-class)</i> 	Ch. 1 Text CD
3-5	Feb. 5 Feb. 12 Feb. 19	Tectonically Driven Disasters <ul style="list-style-type: none"> • Earthquakes, faulting, and seismic principles • Associated hazards, Earthquake Prediction Tsunamis – origin, warning systems, protection <ul style="list-style-type: none"> • <i>Hazard City Assignment #2 (partially in-class)</i> 	Ch. 2 Ch. 3 Text CD
6	Feb. 26	TEST #1 – weeks 1-5	Ch. 1-3
6-7	Feb. 26 Mar. 4	Volcanic & Near Surface Geologic Disasters Volcanism – magma controls, volcanic products & hazards <ul style="list-style-type: none"> • Volcanic resources, prediction, warnings, • Human interactions • <i>Hazard City Assignment #3 (partially in-class)</i> 	Ch. 4 Text CD
8-10	Mar. 11 Mar. 25 Apr. 1	Mass wasting and Slope Processes <ul style="list-style-type: none"> • Controls on mass wasting, related hazards • Human causes, prevention & warning systems • <i>Hazard City Assignment #4 (partially in-class)</i> Subsidence and Soil erosion <ul style="list-style-type: none"> • Subsidence processes & causes of volume loss • Human factors, prediction and remediation 	Ch. 6 Text CD Ch. 7
11	Apr. 8	TEST #2 – weeks 6-10	Ch. 4, 6-7
11-13	Apr. 8 Apr. 15 – No Class; Prof. at conf. Apr. 22	Atmospheric & Water Disasters Atmospheric Controls & Severe Weather <ul style="list-style-type: none"> • Energy dynamics , composition & structure of Atmos. • Hazardous weather, watches & warnings Hurricanes and Extratropical Cyclones <ul style="list-style-type: none"> • Circulation, hazardous conditions • Forecasts and warnings 	Ch. 8 Ch. 9
14-15	Apr. 29 May 6	Flooding <ul style="list-style-type: none"> • River Processes, discharge and flooding controls • <i>Hazard City Assignment #5</i> • Human Impacts, flood prediction, remediation 	Ch. 5 Text CD
	May 13	Test #3 (Final Exam) 6:00-8:50 am	Ch. 5, 8, 9 + Overview question (review Ch. 1)