

Syllabus for ESM 235: Watershed Analysis, Winter 2012

Date	Topic
Jan 9	Watershed Analysis as a social process
Jan 11	Watersheds? Functions? Runoff processes
Jan 16	Horton overland flow environments and surface erosion (including pollutant washoff) in rural and urban areas.
Jan 18	Runoff calculations for watersheds
Jan 23	Runoff calculations for watersheds
Jan 25	Effects of fire on watershed response
Jan 30	Water erosion of hillslopes
Feb 1	Water erosion of hillslopes
Feb 6	Subsurface flow and mass wasting environments.
Feb 8	Mass wasting: landsliding and debris flow
Feb 13	Snow Hydrology
Feb 15	Snow Hydrology
Feb 17	Formation of channel networks and watersheds
Feb 22	Stream channel hydraulics and flow profiles. "In-stream flows"
Feb 27	Stream channel sediment transport
March 1	Sediment storage and channel sedimentation
March 6	Channel form
March 8	Channel habitat modeling
March 13	Channel classifications and riparian zones
March 15	Floodplains and Fans