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FOR 585 - ADVANCED WATERSHED MANAGEMENT
FALL 2001 Tuesdays & Thursdays 2:00 -3:30

Week	Date		Discussion Topic	Reading
1	9/04		Introduction, Watershed Analysis	handouts; Framework
	9/06	*	Water Properties/basic physics/ hydrocycle rev.	handouts; Wohl (chap.1&2)
2	9/11		Cumulative Watershed Effects	handouts; Wohl (chap.6); Reid
	9/13			* Erosion Processes and Sediment, Forest Roads handouts; Reid
			WEPP(Intro)	
3	9/18	*	Rational runoff, Curve #'s, Culverts, Risk, TR-55	handouts, software
	9/20	*	Streamflow data sources and analysis	
		*	FLOWDUR, FLOOD, FLOODFRQ, WEIBULL, DMASS, HISTO	software
4	9/25		Field Trip to Marshall Canyon	
	9/27	*	W. Q. stand's, param's, monitoring SSTEMP, QUAL2E, STORET	handouts software
5				10/02 BMP's, SMZ's, Riparian Design handouts
	10/04		Stream channels - meas. and survey	handouts; Harrelson
6				10/09 * Substrates and sediment Wohl (chap.3)
	10/11	*	Hydrostatics and hydrodynamics XSPRO, X-SECT, MANNING, FROUDE REYNOLDS, QCALC	software; XSPRO Manual
7	10/16		Field Trip to Marshall Canyon	
	10/18		Morphology and function - <u>video</u> Thresholds - Hjulstrom, Shields, Bathurst Channel class. - Rosgen & others - <u>video</u>	handout; Wohl (chap.4)
8				10/23 Watershed Analysis Update - CWE Analysis handouts; Reid
	10/25			BASINS, IWI, NRCS protocol handouts
9	10/30		R-5, 303(d) & TMDL's, Pfankuch, Weyerhauser	handouts
	11/01	*	Climate data sources/analysis; KOPPEN	handouts, software
10				11/06 Climate data, ET models handouts, software
	11/08			* Water Yield Models - WRENSS handouts, software
11				11/13 WRENSS , Region 1 handouts (WATSED)
	11/15		BROOK90	software
12	11/20	*	BROOK90	
13	11/27		WATSED/WEPP/USLE, SWAT, AGNPS, SWRRB	handouts
				11/29 PHABSIM Instream flow / fisheries / handouts, software
14	12/04		Restoration / rehabilitation	handouts
	12/06		Restoration / rehabilitation	
15	12/11		Watershed Analysis Report	
	12/13		Final Discussion	

Textbooks: Reid (1993) "Research and Cumulative Watershed Effects"
Wohl (2000) "Mountain Rivers"

* means an assignment given.

Grade based on 20 page term paper, satisfactory completion of assignments, participation in discussion, and contribution to Watershed Analysis. **IF** I feel as though you are all "pulling your weight" in class, I may choose to not give you written exams.