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### EVST 540.01: Watershed CPR (Conservation, Preservation, Restoration)

Vicki J. Watson

*University of Montana - Missoula*, [vicki.watson@umontana.edu](mailto:vicki.watson@umontana.edu)

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**EVST 540 Watershed CPR (Conservation, Preservation, Restoration)**  
Vicki Watson, 101 Bot, 243-5153, txtrky office hrs 10-noon Wed

**Fall 2002**

Sept. Introduction – 7 C's of Watershed CPR, Watershed CPR plans; grading/projects  
Assignment: see: Clark Fork Slide show (<http://ssrl.soc.umt.edu/evst> )

**Watershed Science – Connections, Capacity, Changes, Condition**

References: basic but good – **Streamkeepers Guide** Ch 1 & 2 (assessments ch 3-7)  
increasingly advanced – Entering the Watershed 93 (esp. exec sum & ch 3)

Naiman 92 Watershed Management (esp chs. 1, 3, 6)

Rosgen 96 Applied Stream Morphology (esp. ch 3 & 4) & Field Guide

Williams 97 Watershed Restoration (esp: chs 1, 5-8, 25)

Naiman 99 River Ecology & Mgt (esp: chs 1, 2-4,5, (11,12,16),18,24,26

Online resources: \*\* **Stream Restoration Manual** (chs 1-3, \$2 for CD)

[http://www.usda.gov/stream\\_restoration/](http://www.usda.gov/stream_restoration/)

\*\*EPA's online watershed courses at <http://www.epa.gov/watertrain/>

\*\*Papers on the Clark Fork at <http://ibscore.dbs.umt.edu/clarkfork>

\*\*Watershed info site: [www.cs.umt.edu/geology/nrdp/nrdpmain.htm](http://www.cs.umt.edu/geology/nrdp/nrdpmain.htm)

Oct. (1/2) – **Watershed Law/Policy--US & MT water laws/regs & rights, nondegradation, TMDL law,**  
MT's sufficient credible evidence of use support; definition of impairment

References: Ch 22 of Naiman 99 (River Law)

Brown, et al. 1993. Laws controlling nps. Water Res Bull. 29(1):1-13. e-reserve

\*\* <http://water.montana.edu> (click: links, click: publications, then scroll list)

to find: Guide to Stream Permits,

Guide to MT Water Quality Regulation, & Wading into MT Water Rights

Mt DEQ web site: [www.deq.state.mt.us/wqinfo/index.asp](http://www.deq.state.mt.us/wqinfo/index.asp) Mt WQ Laws

Oct 2<sup>nd</sup> half & 1<sup>st</sup> half of Nov – **Watershed CPR – Actions** – Field trips

References – see many web sites on web list

Stream Restoration Manual (planning & design 4-8, implement 9, actions A)

Aikens article (Blackfoot case study) from Watershed Restoration

Frissell's articles in Watershed Restoration & Naiman 99 (also ch 26)

file of pamphlets & booklets on BMP's, restoration & management

Nov, 2<sup>nd</sup> half – **Watershed Organizing – Communities, Choices, Commitment**

References: Chs. 21 & 25 of Naiman 99; Consensus Manual of MT Consensus Council;

Getting in Step—a Guide to Effective Outreach in your Watershed

Dec – **Student Presentations** Final meeting – Dec 20 (Friday) 10 - noon (unless we change it)

**Guest Speakers: watershed coordinators, conservation district staff, planners,**  
**DFWP fish biologists, mining & reclamation engineers, restoration scientists**

**Field trips: see list on EVST calendar [www.umt.edu/evst](http://www.umt.edu/evst) click on calendar**

**Clark Fork, Blackfoot & Bitterroot Rivers, restoration sites & companies, pulp mill, etc**  
**(not on calendar, Placid Lake Sept 15)**

**References** – all references mentioned above are on reserve, online and/or available from me.

Many pamphlets/booklets can be obtained free or for a small fee (get addresses from me).

Full citation of articles on reference handout

**Grading** –1 or 2 papers [proposal(s) 10 pts, outline(s)/biblio(s) 40pts, paper(s) 100 pts, presentation(s) 50 pts]

participation in class and on at least 2 field trips 100 pts;

attend meeting of a conservation district, watershed group, or water quality district & summarize for class 50 pts