

University of Montana

ScholarWorks at University of Montana

Syllabi

Course Syllabi

9-2002

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

Vicki J. Watson

University of Montana - Missoula, vicki.watson@umontana.edu

Follow this and additional works at: <https://scholarworks.umt.edu/syllabi>

Let us know how access to this document benefits you.

Recommended Citation

Watson, Vicki J., "EVST 540.01: Watershed CPR (Conservation, Preservation, Restoration)" (2002). *Syllabi*. 3180.

<https://scholarworks.umt.edu/syllabi/3180>

This Syllabus is brought to you for free and open access by the Course Syllabi at ScholarWorks at University of Montana. It has been accepted for inclusion in Syllabi by an authorized administrator of ScholarWorks at University of Montana. For more information, please contact scholarworks@mso.umt.edu.

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/

**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

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 Mt WQ Laws

Oct 2nd half & 1st 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, 2nd 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 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