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### EVST 304.02: Conservation of Natural and Human Resources in Montana

Carlos A. Baied

*University of Montana - Missoula*

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THE UNIVERSITY OF MONTANA, MISSOULA  
ENVIRONMENTAL STUDIES PROGRAM

FALL SEMESTER 2000  
ENVIRONMENTAL STUDIES 304-1/2  
CONSERVATION OF NATURAL AND HUMAN RESOURCES IN MONTANA

INSTRUCTOR: DR. CARLOS A. BAIED  
TEACHING ASSISTANT: GARY HUGHES (EVST GRADUATE STUDENT)  
LECTURES TIME & PLACE: M-W 1:10-2:00 PM, GBB 226  
DISCUSSION SESSIONS TIME AND PLACE: T (SECTION 1) –TH (SECTION 2): 2:10-3:00 PM, LA 102  
OFFICE AND OFFICE HOURS: JEANNETTE RANKIN HALL 018, M-W 2 TO 3 PM AND BY APPOINTMENT  
Telephone: 243-6285, e-mail: APHID@SELWAY.UMT.EDU

COURSE OUTLINE, DESCRIPTION AND EXPECTATIONS

This course offers an overview of Montana's land, people, and natural resources. You can consider it a snapshot of current issues regarding human and natural resources, conservation, and resource management in the state. It does not require previous background in the subject, as you will become acquainted with the government, private for-profit and private non-for-profit organizations' standing and role in the state. Issues to be covered and discussed include those related to mining (history, activity, and impact), air and water (quality, impacts and pollution), timberlands and soils (logging history, activity and impact), and wild lands and wildlife (resources, distribution and management), amongst other equally important for Montana today.

Missoula provides the headquarters and regional offices for several governmental and non-governmental organizations interested in preserving and/or managing natural and human resources. Because of this, we have asked officials and representatives of these groups to be our guest speakers to share with us their own experience and points of view on the different resource-conservation issues. Then, we will develop around these visiting speakers and upon their presentations. In addition, a few selected films will add to the course. All registered students are expected to do their reading assignments ahead and to be ready for commenting and questioning.

We will meet two times a week, Mondays and Wednesdays from 1:10 to 2 PM., with discussion sessions either on Tuesdays or Thursdays 2:10 to 3 PM depending on the section you enrolled. As in any class plan, this semester schedule is tentative and will have many changes, particularly on invited speakers and dates of their presentations. You will be notified of changes as soon as they happen. You may want to periodically check the course web page and look for updates to the Daily Schedule.

Required and Recommended (\*) Readings:

- Malone, Michael P., Richard B. Roeder, and William L. Lang, 1996 [1991]: *Montana: A history of two centuries*. University of Washington Press, Seattle.

- Malone, Michael P., 1996: *Montana. A contemporary profile*. Montana Magazine, American & World Geographic Publishing, Helena.

- Manning, Richard, 1992 [1991]: *Last Stand. A riveting expose of environmental pillage and a lone journalist's struggle to keep faith*. Penguin Books. New York.

- Manning, Richard, 1998: *One Round River*. Henry Holt. New York.

- (\*) Toole, K. Ross, 1959: *Montana. An uncommon land*. University of Oklahoma Press, Norman

Other required readings will be assigned and placed on reserve weekly or as needed and will be available at the Mansfield Library. All students must checkout these materials for reading on site or photocopy them for later reading. In addition, several informative web sites from governmental institutions, the private industry, and non-governmental organizations are up on the World Wide Web. Students are expected to visit these sites, as they are a valuable resource for this course. Examples of these are: the Clark Fork-Pend Oreille Coalition, the Alliance for the Wild Rockies, and the Missoula Water Conservation District.

In addition, this course is placing its own web page at the UM server. A HTML version of this syllabus with useful links to other resources is accessible at the following address: <<http://www.cas.umt.edu/evst/baied/evst304-1.htm>>. My recommendation is that this web page be checked at least once a week for potential updates to course activities.

#### Evaluation and Grading Policy:

Both undergraduate and graduate students are required to take four (4) exams. Each of the first three exams will account for 10% of the course grade. The Final Exam will account for 20%. Graduate and undergraduate students are also required to produce two critical reviews of Richard Manning's *One Round River* and *Last Stand*. Instructions for writing this review will be provided during the first week of class. These reviews will account for 40% of the final grade. In addition, 10% of the final grade will be assigned based on student's attendance and participation.

Graduate students enrolled in this class must approach the instructor and query on additional assignments for graduate students. All graduate students are required to write a Term Paper (between 10 and maximum 15 double spaced typed pages). This paper must verse on a topic selected by the student in consultation with the course Instructor. The form of the essay should be consistent with the guidelines of an accepted manual of style, such as Kate L. Turabian's *A Manual for Writers* published by the University of Chicago Press. This Term Paper MUST BE turned-in during the first week of December.

**Exam 1:** Will include data, definitions, concepts and all materials out of lectures, movies/documentaries, invited speaker's presentations and reading assignments, from September 6<sup>th</sup> through October 9<sup>th</sup> (10%)

**Exam 2:** Same as Quiz 1 but will be based ONLY on materials covered between October 16<sup>th</sup> and October 25<sup>th</sup> (10%)

**Exam 3:** Same as Quiz 1 and 2 but questions will be based ONLY on material covered between November 1<sup>st</sup> and December 4<sup>th</sup>.

**Final Exam:** This is a comprehensive test based on questions from previous exams (one question from each) and assignments between December 6<sup>th</sup> and December 13<sup>th</sup> (one question).

**Book Reviews:** Instructions will be provided during the first week of class. These are also available through the course web page.

**Term Paper:** This is a **GRADUATE STUDENT ONLY** requirement on a topic of the student's choice previous discussion and acceptance by the course coordinator/instructor.

THE UNIVERSITY OF MONTANA, MISSOULA - ENVIRONMENTAL STUDIES PROGRAM  
 ENVIRONMENTAL STUDIES 304-1/2 Conservation of Natural & Human Resources in Montana: Fall Semester 2000  
 TENTATIVE DAILY SCHEDULE (last updated 08/15/00)

MEETING DAY	THEME OUTLINE	READING ASSIGNMENT
Wed, Sep 06	Introduction to the course. Outline, objectives and grading policy	No reading assignment
Mon, Sep 11	Montana: a general overview of lands, people and natural resources	M: Chapters 1
Wed, Sep 13	Montana: a general overview of lands, people and natural resources	M: Chapters 2-3; KRT: Chapter 12, pp. 243-258; RR: MT Atlas
Mon, Sep 18	Montana: a general overview of lands, people and natural resources	RR: Montana Atlas
Wed, Sep 20	Montana: a general overview of lands, people and natural resources	MRL: 14-15, pp. 347-400 & RR
Mon, Sep 25	Guest speaker: James P. Sylvester (The University of Montana, Missoula): on migration and living choices in Montana	RR: Sylvester, J.P. (1997, 1998, 1999)
Wed, Sep 27	Historical background: early peopling and prehistory.	M: Chapter 4 & Afterwards. MRL: Chapters 1-2, pp. 3-40; KRT: Chapter 2, pp. 11-39
Mon, Oct 02	Historical background: early European exploration and fur trade. The western frontier & the Native American population	MRL: Chapters 3 & 5, pp. 41-63 & 92-113; KRT: Chapter 3, 40-63
Wed, Oct 04	Historical background: Gold, the railroad and copper mining	MRL: Chapters 4, 8 & 9, pp. 64-91, 172-231; KRT: Chap. 4, 64-94
Mon, Oct 09	Historical background: Gold, the railroad & copper mining. Review for Quiz 1	KRT: Chapters 4, 8 & 9, 64-94, 167-185 & 186-210
Wed, Oct 11	EXAM 1: same time and place	All assigned readings, lectures and discussion session materials
Mon, Oct 16	Guest speaker: Peter Nielsen (Missoula County Health Department): The Missoula Valley aquifer & water quality in the Missoula-Bitterroot Valleys.	Handouts and RR <a href="http://www.co.missoula.mt.us/WaterQuality/">http://www.co.missoula.mt.us/WaterQuality/</a>
Wed, Oct 18	Guest Speaker: D. Geist (Cold Mountain, Cold Rivers): on water and air pollution in the Missoula Valley: the Smurf-Stone Missoula paper mill.	Handouts and RR <a href="http://www.wildrockies.org/cmcr">http://www.wildrockies.org/cmcr</a> <a href="http://www.smurfit-stone.net/">http://www.smurfit-stone.net/</a>
Mon, Oct 23	Guest speaker: Tracy Stone-Manning (Clark Fork-Pend Oreille Coalition): On the politics of the Clark Fork River Basin. Film: <i>Story of a river: the Clark Fork</i> (21 minutes).	Handouts and RR <a href="http://www.clarkfork.org/index.html">http://www.clarkfork.org/index.html</a>
Wed, Oct 25	Guest Speaker: Rick Stern, Montana Director, Rock Creek Alliance. Topic: On the proposed Rock Creek Mine (Montana-Idaho)	Handouts and RR <a href="http://www.sandpoint.org/rockcreek/">http://www.sandpoint.org/rockcreek/</a>
Mon, Oct 30	EXAM 2: same time and place	All reading assignments, lecture and discussion session materials since EXAM 1
Wed, Nov 01	Guest speaker: Tim Love (District Ranger, Missoula Ranger District, Lolo National Forest): On the National Forest Service, and management-challenges in the Lolo National Forest.	Handouts and RR <a href="http://www.fs.fed.us/">http://www.fs.fed.us/</a> <a href="http://www.fs.fed.us/r1/lolo/">http://www.fs.fed.us/r1/lolo/</a>
Mon, Nov 06	Guest Speaker: Larry Evans (Western Mycological Association): On alternative non-timber forest use.	Handouts and RR
Wed, Nov 08	Guest Speaker: Richard Manning, Environmental Writer, Lolo, Montana. Topic: On <i>Last Stand</i> after almost 10 years	Handouts and RR
Mon, Nov 13	Guest speaker: Mathew Koehler (Media Coordinator, Native Forests Network): On the zero cut campaign on the National Forest system lands	Handouts and RR <a href="http://www.nativeforest.org/">http://www.nativeforest.org/</a>
Wed, Nov 15	Guest speaker: Tami Reschke (Forester, Plum Creek Timber Company, Missoula): On Plum Creek's forest management practices in Montana.	Handouts and RR <a href="http://www.plumcreek.com/">http://www.plumcreek.com/</a>
Mon, Nov 20	Guest speaker: Bob Clark (Alliance for the Wild Rockies): the Northern Rockies Ecosystem Protection Act & the Alliance for the Wild Rockies	Handouts and RR <a href="http://www.wildrockies.org/awr/">http://www.wildrockies.org/awr/</a>
Wed, Nov 22	THANKSGIVING VACATION: no class held	
Mon, Nov 27	Guest speaker: Tom Youngblood-Petersen (Wildlands Center for Preventing Roads): on roads and road removal in state and federal lands	<a href="http://www.wildrockies.org/WildCPR/">http://www.wildrockies.org/WildCPR/</a>
Wed, Nov 29	Guest speaker: On reintroduction of Grizzly bears in the Bitterroot Mountains	Handouts and RR
Mon, Dec 04	EXAM 3: same time and place	All reading assignments, lecture and discussion session materials since EXAM 2

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| Wed, Dec 06 | Guest speaker: Bruce Farling (Montana Trout Unlimited, Missoula):<br>On conservation of native fish and fisheries in Montana and the<br>northwest Discussion. | Handouts and RR<br><a href="http://www.montanatu.org/">http://www.montanatu.org/</a>   |
| Mon, Dec 11 | Guest speaker: Jim Coefield (The Ecology Center, Missoula): Bison<br>management in Montana: The Yellowstone Herd  | Handouts and RR<br><a href="http://www.wildrockies.org/teci/">http://www.wildrockies.org/teci/</a>                               |
| Wed, Dec 13 | Guest speaker: Wendy Ninteman (Five Valleys Land Trust,<br>Missoula): On land conservation easements.   | Handouts and RR<br><a href="http://www.fvlt.org/default.htm">http://www.fvlt.org/default.htm</a>                                 |
| Thu, Dec 21 | FINAL EXAM: To be held in GBB 226, from 1:10 to 3:10 PM   | This exam will include all reading & class<br>assignments covered since EXAM 3 & a<br>selection of questions from previous exams |

M: Malone, M.P. (1996) Montana: a Contemporary Profile; RMLS: Manning, R. (1991) Last Stand; MRL: Malone, M.P., R. Roederer & W. Lang (1991) Montana: a History of Two Centuries; KRT: Toole, K. Ross (1959) Montana. An uncommon land; RR: Readings on reserve

EVST 304: CONSERVATION OF NATURAL AND HUMAN RESOURCES IN MONTANA  
GUIDELINES FOR WRITING ASSIGNMENTS

As outlined in the syllabus, two writing assignments will be required as part of EVST 304. This semester we will be working on two books by local environmental writer Richard Manning. The first assignment will be based on the reading and discussion of *One Round River*, a writing dealing with gold mining in the northwest and particularly on the Blackfoot River where a proposed mining project is still being discussed in the streets, by the media, and in the courts. The second book to be discussed and reviewed is *Last Stand: a riveting expose of environmental pillage and a lone journalist's struggle to keep faith*. This book, although published some years ago, is a good piece of vivid journalist writing on an issue that is still with us here in Montana. Both books are already available at The Bookstore on Campus in their first, hardcover editions. These assignments will account for 30% of the final grade or 15% each, and they are required reading texts to both undergraduate and graduate students.

This written assignment is a review of the books that should be 5 to 7 pages in length. The review, for example, should include a one-to-two page overview of the book demonstrating your understanding of the material. You should then analyze the author's point of view on the issue or issues raised, the strengths and weaknesses of his argument/s, and how does the information conveyed by the book compares with that you have learned in the course through your readings and guest speakers that revolved on the issue/s addressed by Manning. The use of supporting material from outside sources is greatly encouraged. A note of caution: we do not want this assignment to be your own, personal, unsubstantiated rant against industrial logging or Plum Creek nor the mining industry. You need to be sure to cite sources for your information and keep the review focused on Manning's books.

The review will be graded based on your understanding of the book, your ability to incorporate material from lectures and other readings, and your ability to discuss the issue/s beyond the scope of the information provided in the book, as well as writing style and organization.

These assignments are due as follows:

*One Round River* is due on Wednesday, October 25<sup>th</sup>.

*Last Stand* is due on Monday, November 27<sup>th</sup>.

Please note that late reviews could result in an incomplete for the class or, minimally, an automatic reduction in your grade for the assignment. We will return your graded papers in a timely manner.

If you have questions, and I am sure that you will have, please come and see us before turning in your review.