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FOR 389.01: Riparian and Wetland Management

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F 389 — RIPARIAN AND WETLAND MANAGEMENT

Fall 2000

Wednesday 7:00-10:00 pm, Forestry Building, Room 305

INSTRUCTOR: Dr. Paul L. Hansen, School of Forestry
Plhansen@forestry.umt.edu
Forestry Building, Room 204, 243-2050
Office Hours: Monday 3-5; Wednesday 3-5; TBA

TEACHING ASSISTANT:

COURSE OBJECTIVE:

- 1) Increase students awareness of the importance of riparian and wetland areas and the complexities associated with their management.
- 2) Provide students with information pertaining to the vegetation, hydrology, geomorphology, soils, site classification, and management associated with riparian and wetland areas.
- 3) Provide multiple use training that can be used by students to manage riparian and wetland areas for the short- and long-term benefits.
- 4) Introduce students to a variety of management issues by bringing in outside guest lecturers from a variety of agencies and organizations.

REQUIRED BOOK: *Classification and Management of Montana's Riparian and Wetland Sites* by Hansen and others 1995.

REQUIRED READINGS: As assigned in class.

FIELD TRIPS: One 3/4 day Saturday field trip; September 30.

COURSE GRADING: Number of class meeting periods = 14. Grading will be based on the following:

- 1) Two Exams (2/3 of total grade)
 - A) October 18
 - B) December 6
- 2) Final Paper (1/3 of total grade)
 - A) Undergraduate = 10-12 pages
 - B) Graduate = 18-24 pages
- 3) Class attendance
- 4) Class participation/discussion

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Paper Outline

You are currently working for a private consulting firm. An individual has just bought a property containing over 120,000 acres. You have been asked to develop a comprehensive integrated riparian and wetland management plan for the property. The outline of the riparian and wetland management plan **MUST** include the following information:

- 1) Title
- 2) Table of contents
- 3) Introduction
 - a) Discuss the benefits of a healthy riparian zone.
 - b) Discuss and list the goals and objectives (5 W's) for the property.
 - c) Describe the type of management change suggested by the consulting firm for the property.
- 4) Physical setting of the area
 - a) Physiography (outward appearance) and geology
 - b) Climate
- 5) Discussion of the proposed management change as it affects six out of the eight riparian and wetland topics (see below).
- 6) Summary
- 7) Glossary of terms and concepts (e.g., definitions)
- 8) Literature cited (**NOT** a bibliography)
- 9) Appendix with map of the property (including a legend)

Within the paper, you will choose *six out of eight* of the following **RIPARIAN AND WETLAND TOPICS** and explain the impacts caused by your proposed management plan. **Remember — what occurs on the uplands has an impact on the riparian and wetlands.**

- 1) Soil
- 2) Livestock
- 3) Timber
- 4) Wildlife
- 5) Fisheries
- 6) Recreational uses and considerations
- 7) Watershed (hydrology) e.g., water quality, water quantity, etc.
- 8) Vegetation

Length of Paper

- 1) Undergraduate = 10-12 pages
- 2) Graduate = 18-24 pages

Each student is to do their own paper. This is not a group project.

NOTE: The graduate students will be given a data set to analyze and write-up for their report.