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FOR 595.02: Landscape Assessment and Management

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Landscape Assessment and Management
FOR 595 Section 2 (3cr.) Fall 2000

Instructors: Tara Barrett, Robert Pfister

Description: This course focuses on the assessment, planning, and management of forest landscapes. Students should develop an increased understanding of basic principles underlying landscape assessment, along with an enhanced ability to apply those concepts to a management plan for a forest watershed. This year there will be an increased emphasis on the use of GIS and various modeling tools for assessment and planning.

Prerequisites:
Required: Forest ecology (For. 330) or Ecology (Biol. 340) or consent of instructor.

Helpful: Previous courses in GIS, resource policy, and silviculture.

This course fulfills the “Resource Management” requirement for the Master of Ecosystem Management program. It is intended to complement the Landscape Ecology graduate course offered in the spring semester.

Course format:
- Lecture/discussion: Tuesdays/Thursday 11:10-12:00 For. 102
- Lab: Wednesday 12:00-2:00 Joum. 106
- Field trips: To be arranged (when the fires die down!)

Course grading:
- Exams (2) 20% each
- Presentation and class participation 25%
- Final assessment and management plan 35%
- Schedule and Readings (will be updated as the semester progresses)
- Handout listing available GIS data
Landscape Assessment and Management (Forestry 595 Section 2)

Schedule and Readings

Tuesday, Sept. 5 Introduction to the course (TB/BP)

Wednesday, Sept. 6 Introduction to the lab, to ArcView. and to the Lubrecht data set (TB)

Handout: Data available for Lubrecht forest

Thursday, Sept. 7 Intro to landscape assessment (RP)


Tuesday, Sept. 12 Land classification with GIS: issues of scale and representation (TB)

Kootenai National Forest. 1996. Maps from the "Anywhere Forest Plan


Wednesday, Sept. 13 More intro to Lubrecht GIS (TB)

Thursday, Sept. 14 Vegetation classification (RP) / Survey of structure classification (TB)


Tuesday, Sept. 19 High-resolution vegetation modelling (TB)


Wednesday, Sept. 20 Vegetation modelling lab (TB)

Will use Suppose, SYS, and FVS to model plot growth

Thursday, Sept. 21 and Tuesday, Sept. 26 Landscape ecology review/discussion (RP)


Wednesday. Sept. 27 Database queries / existing vegetation at Lubrecht (RP and RA)

Thursday, Sept. 28 Lubrecht objectives and management (Hank Goetz)

Tuesday, Oct. 3 Landscape indices (TB)

Wednesday, Oct. 4 Fragstat lab using current/historic vegetation (TB)

Thursday, Oct. 5 Relationship of assessment to planning (TB)

Tuesday, Oct. 10 Open for team building (TB/RP)

Wednesday, Oct. II (if schedules permit) 12-6 p.m. field trip to Lubrecht (ITB/RP)

Thursday, Oct. 12. TBA

Tuesday, October 17 First exam (RP)

Wednesday, October 18 (SIMPPLLE) (RP)

Thursday, October 19 (RP)

Tuesday, October 24 Forest planning decision support systems I (TB)

Wednesday, October 25 MAGIS lab (TB)

Thursday, October 26 Forest planning decision support systems II (TB)

We'll finalize the rest of the schedule at a later date. The other important dates you need to know are:

Tuesday, November 21 Second exam

December 3, 12, and 13 Class presentations

December 14 Final recommendations for Lubrecht Forest