

NRES 250
INTRODUCTION TO FISHERIES, FORESTRY AND WILDLIFE RESOURCES

FALL SEMESTER 2007 SYLLABUS

<u>Lecturers:</u>	<u>Office</u>	<u>Phone</u>	<u>Office Hours (Announced 1st day of class and)</u>
Dr. Mike Hansen (MH)	CNR 174	x-3420	Posted on office door
Dr. Shelli Dubay (SD)	CNR 327	x-4178	Posted on office door
Dr. Paul Doruska (PD)	CNR 365	x-3988	Posted on office door

Objectives: This course will introduce students to management practices used to achieve specific objectives using the fisheries, forestry and wildlife resources. Through laboratory experiences, students will observe examples of management and develop basic hands-on skills relative to measuring and assessing these resources.

Attendance: While we will not be checking attendance daily in lectures or labs, attendance is your responsibility. Missing lectures and labs will lower your grade in this class. Please let your lab instructor know as soon as possible regarding an unavoidable absence from the class. If you miss an exam, it is your responsibility to arrange for a make-up exam immediately following your return to class.

Grading: Your grade for this course will be based on 3 exams in lecture (75%) and 2 exams in the laboratory (25%). The lecture grade will consist of your scores on 3 exams. Your lab grade will be based on 2 exams (35 pts. each), 2 lab reports (10 pts each), and weekly lab quizzes (totaling 10 pts.). If you have questions regarding your course average, contact Dr. Hansen, the coordinator for NRES 250.

Readings: Readings will be assigned from the texts as well as from handouts, materials on reserve in the LRC and occasional on-line sources. **Exams will include questions from reading assignments.** The texts for this course are:

Scalet, C. G., L. D. Flake, and D. W. Willis. 1996. Introduction to wildlife and fisheries: An integrated approach. W. H. Freeman and Company, New York, New York, USA. **SF&W**

Young, R. A., and R. L. Giese, editors. 2003. Introduction to forest science. 3rd edition. John Wiley and Sons, New York, New York, USA. **Y&G**

Logistics: Lecture, which meets 3 times each week (Tuesday, Thursday and Friday at 10:00–10:50 in CNR 170), is team-taught by Drs. Hansen, Dubay and Doruska. Initials by the topics for lectures indicate which professor will be lecturing. If you have questions over material from a lecture, contact the lecturer who covered that specific material.

LECTURE AND LAB SEQUENCE

WEEK 1: 4–7 September 2007

Lec: Course introduction & History of wildlife management (SD)	<u>Reading assignments</u> SF&W Ch. 1, 17.2, 17.3
Lec: History & importance of forest management (PD)	Y&G Ch. 9
Lec: Rectangular Land Survey (PD)	Y&G Ch. 1
Lab: No Labs	

WEEK 2: 10–14 September 2007

Lec: History of fisheries management (MH)	SF&W Ch. 1
Lec: Importance of fisheries and wildlife management (SD)	
Lec: Public attitudes, conservation ethics and values (SD)	SF&W Ch. 16.4 -16.6
Lab: Rectangular Land Survey	

WEEK 3: 17–21 September 2007

Lec: Factors influencing forest growth: tree morphology (PD)	Y&G Ch. 4
Lec: Environmental physiology of tree growth (PD)	Y&G Ch. 4
Lec: Forest ecology and the forest ecosystem (PD)	Y&G pp. 114-117; 127-130
Lab: Compass and Pacing	

WEEK 4: 24–28 September 2007

- Lec: Forest regions of North America (PD) Y&G Ch. 3
Lec: Impacts of diseases on forests, fish and wildlife resources (SD) Y&G pp. 148-160;
Lec: Social organization, reproductive strategies and management (SD) SF&W Ch. 6, 2.6-2.8
Lab: Closed Traverse

WEEK 5: 1–5 October 2007

- Lec: Dynamics of fish and wildlife populations (MH) SF&W Ch. 3
Lec: Genetics of fish and wildlife (MH) SF&W Ch. 4
Lec: 1st LECTURE EXAM
Lab: Tree Identification

WEEK 6: 8–12 October 2007

- Lec: Sampling fish and wildlife (MH) SF&W Ch. 7
Lec: Determining age, growth, and sex of fish and wildlife (MH) SF&W Ch. 8
Lec: Modeling fish and wildlife population dynamics (MH) SF&W Ch. 9
Lab: Wetlands Field Trip (Dewey Marsh & Plover River)

WEEK 7: 15–19 October 2007

- Lec: Manipulating fish and wildlife resources: stocking and removals (MH) SF&W Ch. 10
Lec: Case study: lake trout restoration in Lake Superior (MH)
Lec: Spacing, dispersal, and migration corridors (SD) SF&W Ch. 2.9, 10.9
Lab: Stream Field Trip (Little Plover River)

WEEK 8: 22–26 October 2007

- Lec: Edge vs. interior wildlife; even vs. uneven aged management (SD)
Lec: Food and cover relationships in managed forests (SD) Y&G Ch. 14
Lec: Sampling forest resources (PD) Y&G pp. 249-260
Lab: MIDTERM LAB EXAM

WEEK 9: 29 October – 2 November 2007

- Lec: Silviculture techniques to manipulate biomass (PD) Y&G Ch. 13
Lec: Even vs. uneven-aged approaches to forest management (PD)
Lec: Intermediate forest management; impacts on air and water quality (PD) Y&G Ch. 16
Lab: Forest Succession (Schmeekle Reserve)

WEEK 10: 5–9 November 2007

- Lec: Benefits of urban trees/shrubs for forestry and wildlife (PD) SF&W 14.3
Lec: Wildlife management in urban settings: benefits and problems (SD)
Lec: 2nd LECTURE EXAM
Lab: Timber Resource Measurements

WEEK 11: 12–16 November 2007

- Lec: Agricultural practices and wildlife management (SD)
Lec: Range management and grazing systems (SD) Y&G Ch. 15; SF&W 14.4
Lec: Manipulations of wetlands for wildlife (SD) SF&W Ch. 14.6, 15.2, 15.3
Lab: Timber Cruising (Schmeekle Reserve)

WEEK 12: 19–21 November 2007

- Lec: Manipulating fishery resources: lake-habitat management (MH) SF&W Ch. 15.3
Lec: No Thursday lecture
Lec: No Friday lecture
Lab: Sampling Fish and Wildlife Populations

WEEK 13: 26–30 November 2007

- Lec: Manipulating fishery resources: stream-habitat management (MH) SF&W Ch. 15.4
Lec: Case study: stream trout management in Wisconsin (MH)
Lec: Fisheries and wildlife legislation (MH) SF&W Ch. 18, 20
Lab: The Scientific Method – Testing Hypotheses

WEEK 14: 3–7 December 2007

- Lec: Legislation for managing forest resources (PD)
Lec: Manipulating fish and wildlife resources: harvest management (MH) SF&W Ch. 17, 19
Lec: Case study: walleye management in northern Wisconsin lakes (MH)
Lab: Jobs in Natural Resources

WEEK 15: 10–14 December 2007

- Lec: Sustainable forestry (PD)
Lec: Management of depleted species (SD)
Lec: Fishery management failures and successes (MH)
Lab: **FINAL LAB EXAM**

FINAL LECTURE EXAM: 12:30–14:30, Wednesday, 19 December 2007

Lab Meeting Times and Lab Instructors (CNR 359):

- Sec. 1 Monday 8:00–9:50 – Diane Lueck
Sec. 2 Wednesday 8:00–9:50 – Melinda Vokoun
Sec. 3 Monday 10:00–11:50 – Kevin Russell
Sec. 4 Wednesday, 12:00–13:50 – Diane Lueck
Sec. 5 Monday, 13:00–14:50 – Shelli Dubay
Sec. 6 Tuesday, 13:00–14:50 – Michael Hansen
Sec. 7 Monday, 15:00–16:50 – Melinda Vokoun
Sec. 8 Tuesday, 15:00–16:50 – John DuPlissis

NR 250 Web Site: The web site for the course contains a copy of the syllabus, with hyper-links to lecture outlines and notes (where available), course requirements, and contact information for all lecturers and lab instructors. The most current schedule for the course will always be available on the web site.

<http://www.uwsp.edu/water/mhansen/nr250/>

OR

UWSP Web Page – MyPoint – Academics Tab

→ Academics and Research

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→ Undergraduate Degree Programs/Course Web Pages

→ Available Course Websites

→ Resource Management

→ Natural Resources 250 – Introduction to Forestry, Fisheries and Wildlife