

**NRES 250**  
**INTRODUCTION TO FISHERIES, FORESTRY AND WILDLIFE RESOURCES**  
**SPRING SEMESTER 2008 SYLLABUS**

<u>Lecturers</u>	<u>Office</u>	<u>Phone</u>	<u>Office hours</u>
Dr. Mike Hansen (MH)	TNR 174	x-3420	Posted on office door
Dr. Shelli Dubay (SD)	TNR 327	x-4178	Posted on office door
Dr. Paul Doruska (PD)	TNR 365	x-3988	Posted on office door

**Objectives:** This course will introduce students to management practices used to achieve specific objectives for 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:** We will not check attendance in lectures or labs, but regular attendance is expected. Missing lectures and labs will lower your grade in this class. Please let your lab instructor know as soon as possible about any unavoidable absence from class. If you miss an exam because of an emergency (health problem or family crisis), you are responsible for arranging a make-up exam immediately after your return to class.

**Grading:** Your grade for this course will be based on three exams in lecture (75%) and an overall laboratory score (25%). The lecture grade will consist of your scores on three non-cumulative exams. Your lab grade will be based on two exams (35 points each), two lab reports (10 points each), and weekly lab quizzes (totaling 10 points). If you have questions regarding your course average, contact Dr. Hansen, the course coordinator. Your lab score is the responsibility of your lab instructor. Your final grade for the course will be assigned based on the final percentage of total points you earned, rounded to the nearest whole percentage: A = 93–100%; A– = 90–92%; B+ = 87–89%; B = 83–86%; B– = 80–82%; C+ = 77–79%; C = 73–76%; C– = 70–72%; D+ = 67–69%; D = 60–66%; F = 0–59%.

**Readings:** Readings will be assigned from the texts and handouts, materials on reserve in the LRC, and occasional on-line sources. **Exams will include questions from reading assignments.** Texts for the course include:  
 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. 3<sup>rd</sup> edition. John Wiley & Sons, New York, New York, USA. (Y&G)

**Logistics:** Lectures (11:00–11:50 on Monday, Wednesday, and Friday in TNR 170) are delivered by Drs. Hansen, Dubay and Doruska. Initials by the title of each lecture indicate the professor that will be lecturing on that topic. If you have questions about a lecture, contact the lecturer who covered that specific material.

**LECTURE AND LAB SEQUENCE**

**WEEK 1: 22–25 January 2008**

Lec: Course introduction & History of fisheries management (MH)  
 Lec: Rectangular Land Survey (PD)  
 Lab: No Labs

**Reading assignments**

SF&W Ch. 1  
 Y&G pp. 245–248

**WEEK 2: 28 January – 1 February 2008**

Lec: History of wildlife management (SD)  
 Lec: History & importance of forest management (PD)  
 Lec: Importance of fisheries and wildlife management (SD)  
 Lab: Rectangular Land Survey

SF&W Ch. 1, 17.2, 17.3  
 Y&G Ch. 1, pp. 196–202

**WEEK 3: 4–8 February 2008**

Lec: Public attitudes, conservation ethics and values (SD)  
 Lec: Factors influencing forest growth: tree morphology (PD)  
 Lec: Environmental physiology of tree growth (PD)  
 Lab: Jobs in Natural Resources

SF&W Ch. 16.4–16.6  
 Y&G pp. 75–85  
 Y&G pp. 85–96, 261

**WEEK 4: 11–15 February 2008**

Lec:	Forest ecology and the forest ecosystem (PD)	Y&G Ch. 6
Lec:	Sampling forest resources (PD)	Y&G pp. 249–260
Lec:	Impacts of diseases on forests, fish and wildlife resources (SD)	Y&G pp.148–160, SF&W 10.9
Lab:	Sampling Fish and Wildlife Populations	

**WEEK 5: 18–22 February 2008**

Lec:	Animal Behavior I (SD)	SF&W Ch. 6, 2.6–2.9
Lec:	Animal Behavior II (SD)	SF&W Ch. 6, 2.6–2.9
Lec:	<b>1<sup>st</sup> LECTURE EXAM</b>	
Lab:	The Scientific Method – Testing Hypotheses	

**WEEK 6: 25–29 February 2008**

Lec:	Dynamics of fish and wildlife populations (MH)	SF&W Ch. 3
Lec:	Genetics of fish and wildlife (MH)	SF&W Ch. 4
Lec:	Sampling fish and wildlife (MH)	SF&W Ch. 7
Lab:	Timber Resource Measurements	

**WEEK 7: 3–7 March 2008**

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
Lec:	Manipulating fish and wildlife resources: stocking and removals (MH)	SF&W Ch. 10
Lab:	Timber Cruising (Schmeeckle Reserve)	

**WEEK 8: 10–14 March 2008**

Lec:	Case study: lake trout restoration in Lake Superior (MH)	
Lec:	Forest-wildlife interactions I (SD)	Y&G Ch. 14
Lec:	Forest-wildlife interactions II (SD)	Y&G Ch. 14
Lab:	<b>MIDTERM LAB EXAM</b>	

**SPRING BREAK: 15–23 March 2008****WEEK 9: 24–28 March 2008**

Lec:	Forest regions of North America (PD)	Y&G Ch. 3
Lec:	Silviculture techniques to manipulate biomass (PD)	Y&G pp. 285–293
Lec:	Even vs. uneven-aged approaches to forest management (PD)	Y&G pp. 285–293
Lab:	Tree Identification	

**WEEK 10: 31 March – 4 April 2008**

Lec:	Intermediate forest management; impacts on air and water quality (PD)	Y&G pp. 293–312, Ch. 16
Lec:	Benefits of urban trees/shrubs for forestry and wildlife (PD)	Y&G Ch. 22
Lec:	<b>2<sup>nd</sup> LECTURE EXAM</b>	
Lab:	Forest Succession (Schmeeckle Reserve)	

**WEEK 11: 7–11 April 2008**

Lec:	Wildlife management in urban settings: benefits and problems (SD)	SF&W Ch. 14.3
Lec:	Agricultural practices and wildlife management (SD)	SF&W Ch.14.4
Lec:	<b>NO CLASS – CNR UNDERGRADUATE RESEARCH SYMPOSIUM</b>	
Lab:	Compass and Pacing	

**WEEK 12: 14–18 April 2008**

Lec:	Range management and grazing systems (SD)	Y&G Ch. 15
Lec:	Manipulations of wetlands for wildlife (SD)	SF&W Ch. 14.6, 15.2, 15.3
Lec:	Manipulating fishery resources: lake-habitat management (MH)	SF&W Ch. 15.3
Lab:	Closed Traverse	

**WEEK 13: 21–25 April 2008**

- 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: Stream Field Trip (Little Plover River)

**WEEK 14: 28 April – 2 May 2008**

- Lec: Legislation for managing forest resources (PD) Y&G Ch. 1, 9 & 10  
 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: Wetlands Field Trip (Dewey Marsh & Plover River)

**WEEK 15: 5–9 May 2008**

- Lec: Sustainable forestry (PD) Y&G pp. 181–190, 307–312  
 Lec: Management of depleted species (SD) SF&W Ch.11  
 Lec: Fishery management failures and successes (MH)  
 Lab: **FINAL LAB EXAM**

**FINAL COURSE EXAM: 8:00 – 10:00, Monday, 12 May 2008****LAB MEETING TIMES (TNR 359):**

- Section 1: Monday, 8:00–9:50 – Dr. Vokoun  
 Section 2: Wednesday, 8:00–9:50 – Mr. Tutton  
 Section 3: Monday, 13:00-14:50 – Dr. Vokoun  
 Section 4: Tuesday, 13:00-14:50 – Dr. Hansen  
 Section 5: Wednesday, 13:00-14:50 – Dr. Doruska  
 Section 6: Monday, 15:00-16:50 – Dr. Demchik  
 Section 7: Tuesday, 15:00-16:50 – Dr. Demchik

**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/natres/nres250/>

OR

UWSP Web Page – MyPoint – Academics Tab

- Academics and Research [*you may need to scroll down to see this part of the menu*]
- College of Natural Resources
- Undergraduate Programs
- Human Dimensions of Natural Resource Management
- Course Websites
- Natural Resources 250 – Introduction to Forestry, Fisheries and Wildlife