

**Department of Forestry**  
**Southern Illinois University Carbondale**  
**Forestry 405**  
**Forest Management for Wildlife**  
**Fall 2007 - Course Syllabus**

**Instructor:** Dr. Jean Mangun

**Office:** 186-E Agriculture Bldg.

**Fall Office Hours:** Mon. 1:30 PM - 3:30 PM  
Tues. 1:30 PM - 3:30 PM  
Weds. 1:30 PM - 3:30 PM

Drop in during office hours; other times always available by appointment; office hours may periodically be canceled for faculty meetings, etc.

**Phone:** 453-7474

**e-mail:** mangfor@siu.edu

**Class Meets:** Tues. 5:00 - 6:50 PM, Room 131 Lawson

**Texts & Supplies (Required):**

1. Hunter, Malcolm, L., ed. 1999. **Maintaining Biodiversity in Forest Ecosystems.** Cambridge University Press, Cambridge UK.

*(This text will be put on reserve in the Forestry Reading Room, Ag 190A).*

2. **Any recognized field guide for birds of the eastern United States.**

A mammal field guide is recommended but optional – class handout will be provided.

*Strongly recommended (especially for beginners):*

- Stokes, Donald and Lillian. 1996. **Stokes Beginner's Guide to Birds: Eastern Region.** Little, Brown and Company, Boston.

*(This particular field guide is recommended because it contains all the birds you will be responsible for knowing by sight, and is illustrated with excellent photographs similar to those used in class.)*

**Updated Course Description:** A study of relationships between modern forest management practices and wildlife population dynamics; emphasis is placed on managing individual forest stands for wildlife habitat values and forested landscapes for biological diversity.

**Course Objectives:**

1. To identify common forest vertebrates of southern Illinois, with particular emphasis placed on game mammals, migratory bird species, and threatened or endangered species;
2. To learn principles of ecological forestry and conservation biology necessary for maintenance of biological diversity across forested landscapes;
3. To learn basic concepts and specific guidelines for wildlife habitat enhancement applicable to managed tracts of private forest land.

**Course Outline:**

1. Taxonomic Review
  - a. Scientific nomenclature
  - b. Terrestrial vertebrates of southern Illinois
2. The Macro (Forest Landscape) Approach
  - a. Species Composition
  - b. Age Structure
  - c. Horizontal Heterogeneity
    - 1.) Edge effect

- 2.) Forested riparian buffers
- 3.) Forest fragmentation
- 3. The Micro (Forest Stand) Approach
  - a. Vertical structure
    - 1.) Dying, dead, & down trees
    - 2.) Silvicultural practices
  - b. Special species management
- 4. Formulation of management plans

**Lecture, Assignment, and Exam Schedule:**

Week	Date	Topic	Reading
1	Aug 21	Class Orientation: Review of Taxonomy & Scientific Nomenclature; Field Guides; Species Identification; Managing Woodlands Video	-----
2	Aug 28	<b>Class Canceled</b>	-----
3	Sep 4	Biodiversity & Ecological Forestry; Vertebrates of Southern Illinois I (Game birds and Birds of Prey)	Chaps. 1 & 2: pp. 3-19; 22-47; 55-57 & Handouts
4	Sep 11	Species Composition: Red-cockaded woodpecker and Longleaf pine Ecosystem; White Pines Video	Chap. 3: pp. 65-88
5	Sep 18	Forest Dynamics: Spatial & Temporal Scales; Vertebrates of Southern Illinois II (Woodpeckers)	Chap. 4: pp. 95-119
6	Sep 25	Managing the Dynamic Forest Mosaic; Moose & Deer Distribution in Maine	Chap. 4: pp. 120-132
7	Oct 2	<b>First Hour Exam</b> <b>Habitat Management Plan Assignment</b>	-----
8	Oct 9	The Edge Effect and Game Species; Vertebrates of Southern Illinois III (Mammals I)	Chap. 6: pp. 210-228 & Handouts
9	Oct 16	Islands & Fragments; Forest Fragmentation Video; Vertebrates of Southern Illinois IV (Mammals II)	Chap. 7: pp. 234-250; 254-256 & Handout
10	Oct 23	Forested Riparian Buffers & Forested Wetlands; Riparian Buffer Video Greentree Reservoirs: Oakwood Bottoms Case Study	Chap. 8: pp. 265-268; 282-289. Chap. 9: pp. 300-315 & Handout
11	Oct 30	Wildlife Damage Mitigation; Public Perceptions of Predators	Handout
12	Nov 6	<b>Second Hour Exam</b>	-----

Week	Date	Topic	Reading
13	Nov 13	Vertical Structure and the Forest Stand; Vertebrates of Southern Illinois V (Songbirds)	Chap. 11: pp. 373-393 & Handout
14	Nov 20	<b>Thanksgiving Break</b>	-----
15	Nov 27	Dying, dead, & down trees; Relationship of Silviculture to Wildlife Habitat <b>MANAGEMENT PLAN REPORTS DUE</b>	Chap. 10: pp. 335-361 & Chap. 12: pp. 400-424
16	Dec 4	Kirtland's Warbler Case Study & Video; Management of Special Species	Chap. 13: pp. 434-455
<b>Final</b>	<b>Dec 11</b>	<b>FINAL EXAM</b> 12-11-2007 (Tuesday) 8:00 – 10:00 PM	Same room, LWSN 131

Note: Final exam is in same room but at a later time than class usually meets.

**Make-up exams offered only for official university excuse, such as a documented illness or team travel. If you have a problem with assignment or exam dates, you must see me beforehand.** The last day to drop a semester course without penalty is October 15, 2007 (Monday of 9th week).

**Course Requirements and Grading Policy:** Two Hour Exams and a **Comprehensive Final Exam**; regular attendance expected; attendance required at nine out of twelve class meetings for 3% class participation bonus.

**Wildlife Habitat Management Plan Assignment:** Will require approximately 5-6 typewritten pages, detailed instructions to be given in class (Oct. 2<sup>nd</sup>).

Two Hour Exams	200 points	Grading Scale:	90 - 100%	A
Mgmt. Plan Report	125		80 - 89	B
Final Exam	125		70 - 79	C
<b>Possible Total</b>	<b>450 points</b>		60 - 69	D
			Below 60%	F

A grade of incomplete AI@ is **only** awarded if a student cannot complete all course requirements due to some unforeseen serious circumstances **and** appropriate arrangements have been made with the instructor. A grade of incomplete AI@ is **not** awarded in cases where a student simply ceases to attend class and reappears at the very end of the semester. In those cases in which a student stops attending **without** officially dropping the course, a grade of AWF@ will be assigned.

**Academic Honesty Policy:** The academic honesty policy enforced will follow the Student Conduct Code, Section II, Article A.

**ADA Special Accommodations:** In keeping with the goal of the implementation of the Americans with Disabilities Act (ADA), all students for whom the act applies should notify the instructor no later than the second session of the course so that arrangements can be made for accommodations to meet your educational needs and maximize learning.

**SIUC strongly urges all students to maintain an siu.edu e-mail address. Students who do not have an siu.edu**

address or who have lost/forgotten it should contact Information Technology Help Desk at 618-453-5155.

**In order to receive important information regarding advisement, registration, career fairs, internships, College, Department, and club events, graduation, deadlines, scholarships, etc., please subscribe to the College of Agricultural Sciences Listserv!! How?**

1. only **siu.edu** addresses will be accepted
2. email: [listserv@siu.edu](mailto:listserv@siu.edu)
3. leave subject blank
4. message should read: **SUB AGRICULTURE-L  
first name, last name**

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**New SIUC Emergency Response Statement:**

### **EMERGENCY PROCEDURES**

Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in building on campus, available on the BERT's website at [www.bert.siu.edu](http://www.bert.siu.edu), Department of Public Safety's website [www.dps.siu.edu](http://www.dps.siu.edu) (disaster drop down) and in the Emergency Response Guidelines pamphlet. Know how to respond to each type of emergency.

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.