

**SYLLABUS Forestry 433 – Regional Silviculture**  
Spring, 2019

**Class Times:** 300-400 Mon., Wed., TNR 120

**Instructors & Office Hours:**

Dr. Demchik (CNR 246; [mdemchik@uwsp.edu](mailto:mdemchik@uwsp.edu)): TBD; open door policy

Dr. Doruska (TNR 269; [pdoruska@uwsp.edu](mailto:pdoruska@uwsp.edu)): office hours: Wed 1-1:50pm; Thurs 11-11:50am

**Text:** Barrett, J. W. (ed.). 1995. Regional Silviculture of the United States. Third edition. John Wiley & Sons.

**Learning Outcomes**

*The student should be able to*

1. Discuss and prescribe silvicultural systems that are appropriate for the selected cover types.
2. Identify silviculture-related issues and challenges, as well as regional variation in biotic, abiotic, and societal constraints on forest management.
3. Synthesize and use a diverse array of topics studied in other courses. These includes soils, ecology, pest management, economics [a little] and wildlife management.

**Class Format:** For each cover type, the following (list below) will be addressed, but to different degrees. You will be given handouts, have materials in D2L and be assigned pages in the text for some of the ‘background’ material. **You will need to study this on your own.** This is important!! By doing this, it will provide more time during class to get into the silviculture of each forest type.

1. Physiography, soils & climate - regional level
2. Land-use history; place and role in ecological succession
3. Current conditions & ownership patterns
4. Important & relevant autecological characteristics -- important species in the cover type
5. Silvicultural treatments/systems
6. Major insect/disease problems
7. Unique problems, pressures, and issues, including ecosystem management

**TOPICAL OUTLINE, READING ASSIGNMENTS & EXAM DATES**

Date	Topic	Reading
1-23	Class Intro and Doug Fir	pp. 499-513
1-28	Doug Fir	pp. 518-532
1-30	Doug Fir	pp. 1-15 in “Variable Retention Harvests”, Franklin & others, 1997
2-4	Doug Fir	
2-6	Loblolly	
2-11	Loblolly	
2-13	Loblolly	
2-18	Loblolly	
2-20	Loblolly	
2-25	Doug Fir and Loblolly Exam	
2-27	Appalachian Intro & Oak	pp. 173-84, 192-204; Reading #5
3-4	Oak	
3-6	Oak	

3-11	Oak	
3-13	Range management	
3-18 to 3-22	Spring Break	
3-25	Ponderosa Intro	pp. 335-347
3-27	CLASS Canceled for Field Trip	
4-1	Ponderosa	pp. 347 – 355
4-3	Ponderosa	pp. 355-357; Koski et al. 2009
4-8	Ponderosa	
4-10	Oak and Pondo Exam	
4-15	NH and Allegheny	pp. 31-38; 41-44; Reading #1
4-17	NH and Allegheny	pp. 44-56; 69-71
4-22	NH and Allegheny	
4-24	NH and Allegheny	
4-29	NH and Allegheny	pp. 173-184
5-1	NH and Allegheny	Readings #2, 3
5-6	NH and Allegheny	
5-8	Evaluation and review	
5-15	Exam 3	5/15/2019, Wednesday 10:15AM - 12:15PM

## ATTENDANCE POLICY

If you miss a class session, it is your responsibility to obtain any material missed; MAKE SURE you get a complete set of notes and find out about any announcements. After reviewing the notes, check with the appropriate instructor for any clarification needed.

## EXAMS AND GRADING

Your grade will be based on:

Exam 1	33.3%
Exam 2	33.3%
Exam 3	33.3% (during final exam time)

## Complete Citations for Required Readings:

1. Leak, Solomon and DeBald. *Silvicultural Guide for Northern Hardwood Types in the Northeast* (revised). USFS Res. Paper NE-603.
2. Marquis, David A, Richard L. Ernst and Susan L. Stout. 1992. *Prescribing silvicultural treatments in hardwood stands of the Alleghenies* (revised). USDA For. Serv. Gen. Tech. Rep. NE-96., pages 1-16
3. Marquis, David. *The Allegheny Hardwoods of Pennsylvania*. USFS Gen. Tech. Report NE-15.
4. Franklin, Jerry F. and others. 1997. *Alternative silvicultural approaches to timber harvesting: variable retention harvest systems*. Chapter 7 in Creating a Forestry for 21<sup>st</sup> century, KA Kohm and JF Franklin, eds.
5. Gribko, Linda S., Thomas M. Schuler, and W. Mark Ford. 2002. *Biotic and abiotic mechanisms in the establishment of northern red oak seedlings: a review*. USFS Gen. Tech. Report NE-295.
6. Koski, RD, WR Jacobi and CE Swift. 2009. *Mistletoes in Colorado conifers*. Colo. St. Univ. Extension, Fact Sheet No. 2.925.