

Course Outline: Forestry 312 - Wood Identification Spring Semester, 2007

Instructor

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Office Hours

Office hours are scheduled for Monday and Wednesday from 9:40 to 11:00 or by appointment.

Class Schedule

This five week 1 credit course will be held the 1st through the 5th week of the spring 2007 semester. Classes will meet Monday evenings from 7:00 to 9:00.

Text

- No text is required; however, the reference texts listed below are very helpful.
- 10x hand lens is required.
- A small razor sharp knife is required. A carpenter's utility knife with replaceable blades is ideal.
- A small water bottle is useful. A 20 oz. plastic soda bottle or water bottle is ideal.
- Wood sample kits will be loaned to each student and returned at the end of the course. Sample kits can be purchased for approximately \$50.

Reference Texts

Copies of the following three texts will be placed on reserve at Steenboch Memorial Library.

Hoadley, R.B. 1995. Identifying Wood – Accurate Results with Simple Tools. The Taunton Press. Newtown, Connecticut.

Forest Product Laboratory. 1999. Wood Handbook – Wood as an Engineering Material. General Technical Report FPL-GTR-113. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory.

Bowyer J.L., R. Shmulsky, and J.G. Haygreen. 2003. Forest Products and Wood Science - An Introduction, 4th Edition. Ames: Iowa State University Press.

Course Objectives

Upon completion of this course, students will:

1. understand the basic anatomy of softwoods and hardwoods.
2. be able to identify major softwood and hardwood species.
3. understand the practical: what they are looking at in lumber and furniture stores.

Instructor Expectations

The student is expected to attend scheduled class periods, arrive on time, and complete assignments on time. If you are unable to attend a scheduled class period, inform the instructor 1 week prior to your absence. Turn off your cell phones while in class.

Course Notes

Lecture notes can be downloaded from the course website:

<http://forest.wisc.edu/312-314/index.htm>

Grading and Assignments

Grades will be assigned based on the student's performance on the following:

Exam I: Terms and Structure -----35%

Exam II: Sample Identification-----55%

Participation-----10%

Tentative Class Schedule

| Week | Topic | Readings | Comments |
|--------|---|---|---|
| Week 1 | <ul style="list-style-type: none"> • Introductions and Syllabus Review • Issue Sample Kits • Introduction to Wood ID • Softwood Structure <ul style="list-style-type: none"> - Resinous Softwoods - Non-Resinous Softwoods - ID Softwoods | Hoadley chapter 1-3, 7, 11 Bowyer <i>et al.</i> chapter 1-4 FPL chapter 2 | First Class: Monday, Jan. 29, 2007 Bring 10x hand lens, utility knife, and water bottle by next class |
| Week 2 | <ul style="list-style-type: none"> • Hardwood Structure <ul style="list-style-type: none"> - Ring Porous Hardwoods - ID Ring Porous Hardwoods - Semi-Ring Porous Hardwoods - ID Semi-Ring Porous Hardwoods | Hoadley chapter 4, 10 Bowyer <i>et al.</i> chapter 5 | Bring sample kits, lens, knife, and water bottle (Monday, Feb. 5, 2007) |
| Week 3 | <ul style="list-style-type: none"> • Guest Lecturer: Center for Wood Anatomy Research, USDA Forest Service Forest Products Laboratory • Wood Structure and Terminology Exam | Hoadley chapter 4, 10 Bowyer <i>et al.</i> chapter 5 | Bring sample kits, lens, knife, and water bottle (Monday, Feb. 12, 2007) |
| Week 4 | <ul style="list-style-type: none"> • Hardwood Structure <ul style="list-style-type: none"> - Diffuse Porous Hardwoods - ID Diffuse Porous Hardwoods | Hoadley chapter 4, 10 Bowyer <i>et al.</i> chapter 5 | Bring sample kits, lens, knife, and water bottle (Monday, Feb. 19, 2007) |
| Week 5 | <ul style="list-style-type: none"> • Softwood and Hardwood Review • Wood Sample Exam | Review Hoadley and Bowyer <i>et al.</i> for final exam | Last Class: Monday, Feb. 26, 2007 Bring sample kits, lens, knife, and water bottle |