

Botany 402: Dendrology

Syllabus - Fall Semester 2009 2 credits

Instructor: Sara Hotchkiss, 353 Birge Hall, shotchkiss@wisc.edu
Office Hour: Tuesdays, 11:00 – Noon

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Course website: <http://learnuw.wisc.edu> (login to Botany 402 using UW ID and password). The syllabus, schedule updates, maps, species lists, and links to web resources are posted here.

Course Schedule: **Lecture in 346 Birge Hall - Tuesdays 9:30 – 10:45 a.m.**
 Lab Sec 301 - Tuesdays 1:20 - 3:50 p.m.
 Lab Sec 302 -Wednesdays: 1:20 - 3:50 p.m.

IMPORTANT! Most labs take place outdoors, *rain or shine*. Be prepared with good shoes and appropriate clothes. Bring notebook, handlens, rain gear and whatever calm, clothing, or chemicals you need to be able to learn in the presence of biting insects!

Texts and other materials (available at UW Bookstore):

- 1 Barnes, B. & W. Wagner, Michigan Trees: A guide to the trees of the Great Lakes region. University of Michigan Press.
- 2 A hand lens or small magnifier (10X) - located in Art Supplies, or from Forestry Suppliers (www.forestry-suppliers.com)
- 3 A field notebook (waterproof “Rite in the Rain” is best) or clipboard with paper.
- 4 A small pocketknife can also come in handy.

Other useful resources:

Cope, E. A. Muenschers Keys to Woody Plants. Cornell University Press.
Smith, W.R. Trees and Shrubs of Minnesota. Minnesota Department of Natural Resources.

Learning Objectives:

- ◆ To be able to identify all native Wisconsin trees, common shrubs, and some important woody exotics by common and scientific name.
- ◆ To know the morphology, distribution, habitat, ecology, and economic importance of these species.
- ◆ To be familiar with the characteristic tree taxa of the world’s major forest types.
- ◆ To understand how morphology, life history, and ecology are related to habitat and distribution of woody plants.
- ◆ To understand the major factors affecting the composition, structure and economic value of tree communities.

Participation policy:

Since most of this course takes place in the field, attendance to labs is *mandatory*, unless you are sick. Field trips are held rain or shine – please be prepared! If you have a conflict, contact your professor or T.A. to obtain permission to attend the other lab section. *You may not attend the other lab section without prior authorization.* Attendance in lab and lecture counts towards your participation grade. In case of illness, contact your professor or T.A. to arrange an alternative activity.

Exams & Assignments:

Field Quiz 1	Sept. 22 & 23	15%
Field Quiz 2	Oct. 13 & 14	20%
Field Quiz 3	Nov. 3 & 4	20%
Assignments	Sept 15, Oct 6, Nov 3, Nov 16	10%
Final Exam	Dec. 15 - 16	25%
Participation	All semester	10%

Grading:

90-100% A 88-90% AB 80-88% B 78-80% BC 70-78% C 60-70% D

Academic integrity: I take this issue very seriously and presume you do too. I encourage you to work together in this class, and I expect that you will never misrepresent the work of others as your own. Here are some UW web resources to help you:

The writing center's guide to avoiding plagiarism

<http://www.wisc.edu/students/plagiarism.pdf>

Memorial library's citation guides (use CBE format)

<http://www.library.wisc.edu/libraries/Memorial/citing.htm>

Academic misconduct rules and procedures

<http://www.wisc.edu/students/amsum.htm>

See complete lecture and lab schedule – NEXT PAGE

Botany 402 – Dendrology Class Schedule – Fall 2009

Dates	Location	Topics/Activities
Sept. 8 & 9	Lecture	Intro to Wisconsin Tree Habitats, Nomenclature and Morphology Reading: Michigan Trees pp.1-45
	Meet in Lab, campus walk	Wisconsin Trees Part I: Maples, Horsechestnuts & Ashes
Sept. 15 & 16	Lecture	Wisconsin Trees Part II: Oaks, Nuts and Cherries Terminology Assignment DUE
	Wingra Woods lot - Arboretum	Wisconsin Trees Part II Reading: WI Habitats - online
Sept. 22 & 23	Lecture	Wisconsin Trees Part III: Birches, Aspens, Elms and Legumes
	Arboretum Visitor Center	Wisconsin Trees Part III FIELD QUIZ 1 (on parts I & II)
Sept. 29 & 30	Lecture	Wisconsin Shrubs
	Monroe St. Savanna	Wisconsin Shrubs
Oct. 6 & 7	Lecture	Functional Morphology of Trees
	Meet in Lab: Campus Walk	More Wisconsin Trees & Shrubs Assignment: Madison Trees DUE
Oct. 13 & 14	Lecture	Dynamics of Wisconsin Forests Reading: McCune & Cottam 1985
	Eagle Heights Woods	Natural Gradients and Ecotones - FIELD QUIZ 2
Oct. 20 & 21	Lecture	Major Conifer Groups
	St. Dunstan's Church	Conifer identification
Oct. 27 & 28	Lecture	Phytogeography (Dr. Ken Sytsma)
	Picnic Point	Disturbance & Succession / Conifer review
Nov. 3 & 4	Lecture	Forest History
	Meet in Lab	FIELD QUIZ 3 Herbarium Specimens DUE
Nov. 10 & 11	Lecture	Wood anatomy (Dr. Alex Wiedenhoef)
	Meet in Lab	Wood anatomy
Nov. 17 & 18	Lecture	Economically Important Trees I
	Meet in Lab	Twigs & Winter ID I
Nov. 24	Lecture	Economically Important Trees II
	NO LAB – Thanksgiving week	
Dec. 1 & 2	Lecture	Trees in Winter
	Meet in Lab	Twigs & Winter ID II
Dec. 8 & 9	Lecture	Tropical Dendrology
	Olbrich Gardens Conservatory	Tropical Woody Plants
Dec. 15 & 16	Final Exam	FINAL EXAM (Lecture + Lab)