

# *Botany 402: Dendrology*

**Syllabus - Fall Semester 2006**  
**2 credits**

**Instructor:** Dr. Catherine Woodward, 338 Birge Hall, [cwoodwar@wisc.edu](mailto:cwoodwar@wisc.edu)

**TA:** Stephanie McFarlane, 342 Birge Hall, 265-4523, [mcfarlane@wisc.edu](mailto:mcfarlane@wisc.edu)

**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. Lecture powerpoints will not be posted online until the last two weeks of class prior to the final exam.

**Course Schedule:**

Lecture - 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.

<p><b>IMPORTANT!</b> Most labs take place outside, <i>rain or shine</i>. Be prepared with good shoes and appropriate clothes. Bring notebook, handlens, rain gear and mosquito repellent!</p>
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**Weekend Field Trip :**           **SATURDAY, SEPT. 16, 9 a.m. - 5 p.m.**  
  **Baraboo Hills & Wisconsin River region**  
  **Meet at loading dock behind Birge Hall (B3 level)**

**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. Cope, E. A. Muencher's Keys to Woody Plants. Cornell University Press
3. A hand lens or small magnifier (10X) - located in Art Supplies, or from Forestry Suppliers ([www.forestry-suppliers.com](http://www.forestry-suppliers.com))
4. A small field notebook (waterproof "Rite in the Rain" is best)
5. A small pocketknife can also come in handy.

**Learning Objectives:**

- ◆ To be able to identify native Wisconsin woody plant species, and some important exotics.
- ◆ 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 processes of disturbance and succession and their effects on the composition, structure and economic value of tree communities.

**Participation policy:**

Since most learning for this course takes place in the field, attendance to field trips is *mandatory*. Field trips are held rain or shine – please be prepared! If you have a conflict, contact your 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.

**Exams & Assignments:**

Field Quiz 1	Sept. 19 - 20	15%
Field Quiz 2	Oct. 10 - 11	15%
Field Quiz 3	Oct. 31 - Nov. 1	15%
Independent Projects	due Nov. 28 - 29	20%
Final Exam (Lecture & Labs)	Dec. 12 - 13	25%
Class Participation	All semester	10%

**Grading:**

93-100%	A
90-93%	AB
83-90%	B
80-83%	BC
70-80%	C
60-70%	D

**See complete lecture and lab schedule – NEXT PAGE!**

## *Botany 402 – Dendrology*

### COURSE SCHEDULE - FALL 2006

Dates	Location	Topics/Activities
Sept. 5 & 6	Lecture	Intro to Dendrology Reading: Michigan Trees pp.1-45
	Meet in Lab	Nomenclature, Morphology, Dichotomous keys, Campus walk
Sept. 12 & 13	Lecture	Wisconsin Trees & Shrubs Part I
	Arboretum Visitor Center	Wisconsin Trees & Shrubs Part I
Sept. 16 (Sat.)	Birge Hall Loading Dock	Field trip to Baraboo Hills
Sept. 19 & 20	Lecture	Wisconsin Trees & Shrubs Part II
	Monroe Street Savanna	Wisconsin Trees & Shrubs Part II <b>FIELD QUIZ 1</b>
Sept. 26 & 27	Lecture	Wisconsin Trees & Shrubs Part III
	Arboretum Visitor Center	Wisconsin Trees & Shrubs Part III
Oct. 3 & 4	Lecture	Tree Distribution & Adaptation
	Meet in Lab: Campus Walk	Wisconsin Trees & Shrubs Part IV Assignment: Madison Trees
Oct. 10 & 11	Lecture	Dynamics of Wisconsin Forests (Dr. Tom Givnish)
	Eagle Heights Woods	Natural Gradients and Ecotones - <b>FIELD QUIZ 2</b>
Oct. 17 & 18	Lecture	Disturbance, Succession & Life History of Trees
	Picnic Point	Disturbance & Invasion
Oct. 24 & 25	Lecture	Major Conifer Groups
	St. Dunstan's Church	Conifer identification
Oct. 31 & Nov. 1	Lecture	Phytogeography (Dr. Ken Sytsma)
	Arboretum Visitor Center	<b>FIELD QUIZ 3</b>
Nov. 7 & 8	Lecture	Wood anatomy (Dr. Alex Wiedenhoef) )
	Meet in Lab	Wood anatomy
Nov. 14 & 15	Lecture	Economically Important Trees
	Meet in Lab	Work on Independent Projects
Nov. 21 & 22	Lecture/Lab	Twigs & Winter ID
	NO LAB	
Nov. 28 & 29	Lecture	Forest Regions of the World
	Meet in Lab	Present projects in Lab
Dec. 5 & 6	Lecture	Tropical Dendrology
	Olbrich Gardens Conservatory	Tropical Woody Plants
Dec. 12	Final Exam	<b>FINAL EXAM</b> (Lecture + Lab)

