

Fall 9-1-2001

## FOR 241.01: Dendrology

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**FOR 241**  
**Dendrology**  
**Autumn Semester**  
**3 Credits**

**Instructor:** Burke, Edwin J. -- Journalism 105 -- 243-5157

**Graduate Teaching Assistant:** Yen, Tsair-Bor, Journalism 105 -- 243-5157

**Schedule:** Lecture: Tuesday, Thursday, 1:10 - 2:00 pm., Journalism 112 (Plant Lab)

Laboratory: Tuesday or Friday, 2:10 - 5:00 pm., Journalism 112 (Plant Lab)

**Required Texts:** Faculty Pak @ Bookstore; *Fruit and Twig Key*, Dover Press.

**Optional Text:** *Textbook of Dendrology* -- McGraw-Hill; *Trees of North America* -- Golden Press

**Grading: Lecture**

1 hr. exam covering stem and leaf structure, 13:10-14:00, Thursday, Week 7	50
1 hr. mid-semester exam covering Angiosperms, 13:10-14:00, Thursday, Week 7	100
1 hr. exam covering root and phloem structure, 13:10-14:00, Tuesday, Week 12	50
1 hr. exam covering xylem structure, 13:10-14:00, Tuesday, Week 15	50
1 hr. mid-semester lecture exam covering Gymnosperms 13:10-14:00, Thursday, Examination Week	100

**Angiosperm Laboratory:**

6 weekly quizzes, starting week #2 @40 pts. ea.	240
Laboratory Examination, over weeks 1-6, during lab, Week 7	200
5-specimen pressed, dried and mounted collection, due at beginning of lecture, Tuesday, Week 8	50

**Gymnosperm Laboratory**

5 weekly quizzes, starting week # 11 @40 pts. ea.	200
Laboratory Examination, over weeks 9-14 during lab, Week 15	<u>200</u>
Subtotal Points for Class	1240
Minus lowest quiz score for the semester	<u>-40</u>
<b>Total Points for Class</b>	<b>1200</b>

One make-up quiz for those who were absent for any quiz during the semester will be given near the last week of the semester, during the Gymnosperm section. The quiz will cover angiosperms, but can be used to count for a quiz missed during the Angiosperm section. Only one missed quiz can be made up, and only at the one time offered at the end of the semester.

In addition, the lowest quiz score for the semester will be dropped. If all quizzes were taken and show scores, the lowest of these will be dropped. If you missed, and did not make up a quiz, that missing grade (0 points) will be dropped. Weekly grades will be posted in the classroom and outside Yen and Burke's office, Journalism 105.

**A=93%+; B=85%+; C=77%+; D=70%+; F< 70%**

**FOR 241**  
**Dendrology- Autumn Semester**  
**Topical Outline and Course Schedule**  
**TOPIC**

Week # New Trees

**ANGIOSPERMAE**

1	8	Introduction; Dendrology Terminology Slide Tape (avail. at IMS for review at any time during semester); <i>Salicaceae</i> (7); <i>Elaeagnaceae</i> (1) (lecture and lab during lab period this week)
2	8	<i>Betulaceae</i> (4), <i>Juglandaceae</i> (4); <b>Quiz A-1; Stem structure</b>
3	11	<i>Fagaceae</i> (8), <i>Ulmaceae</i> (3); <b>Quiz A-2; Stem structure</b>
4	9	<i>Oleaceae</i> (2), <i>Magnoliaceae</i> (2), <i>Lauraceae</i> (2), <i>Fabaceae</i> (1), <i>Caesalpiniaceae</i> (1), <i>Hippocastanaceae</i> (1); <b>Quiz A-3; Stem structure</b>
5	12	<i>Aceraceae</i> (8), <i>Platanaceae</i> (1), <i>Hamamelidaceae</i> (1), <i>Rosaceae</i> (2); <b>Quiz A-4; Leaf structure</b>
6	7	<i>Cornaceae</i> (2), <i>Aquifoliaceae</i> (1), <i>Tiliaceae</i> (1), <i>Anacardiaceae</i> (1), <i>Ericaceae</i> (1), <i>Bignoniaceae</i> (1); <b>Quiz A-5; Leaf structure</b>
7	0	<b>Quiz A-6 and Structure Exam</b> over stem and leaf structure in Tuesday lecture; The Angiosperm <b>Lecture Exam</b> is to be held during Thursday's lecture period. The Angiosperm <b>Laboratory Exam</b> is to be held during this week's laboratory periods.

**GYMNOSPERMAE**

8	9	<i>Ginkgoaceae</i> (1), <i>Taxaceae</i> (1), <i>Pinaceae</i> -- <i>Hapoxylon</i> of <i>Pinus</i> (7); No Quiz
9	9	<i>Pinaceae</i> -- <i>Dipoxylon</i> of <i>Pinus</i> (9); <b>Quiz G-1; Root structure</b>
10	7	<i>Pinaceae</i> -- <i>Larix</i> (3), <i>Pseudotsuga</i> (1), <i>Tsuga</i> (3); <b>Quiz G-2; Root structure</b>
11	10	<i>Pinaceae</i> -- <i>Picea</i> (6), <i>Abies</i> (4); <b>Quiz G-3; Xylem and phloem structure</b>
12	0	<b>Structure Exam</b> over root and phloem structure in Tuesday's Lecture; No Labs this week-- Thanksgiving Break Wednesday through Sunday
13	7	<i>Cupressaceae</i> -- <i>Sequoia</i> (1), <i>Sequoiadendron</i> (1), <i>Juniperus</i> (2), <i>Calocedrus</i> (1), <i>Thuja</i> (2); <b>Quiz G-4; Xylem and phloem structure</b>
14	0	<b>Structure Exam</b> over xylem structure during Tuesday's lecture period. Gymnosperm collection also due at this time; <b>Quiz G-5 and Make-up Quiz</b> during Thursday's lecture period; Lab periods for study.
15	0	<b>Gymnosperm Laboratory Exam</b> during this week's laboratory periods. <b>Gymnosperm Lecture Exam</b> on Thursday.
16	0	Finals Week. Examinations and collections graded and ready to pick up by Friday.

Total # of trees = 97

**FOR 241  
Dendrology**

**Key to Species Groups and Geographic Location Abbreviations**

OCYP	=	oak, chestnut, yellow-poplar	OH	=	oak, hickory
BBM	=	birch, beech, maple	SM	=	sycamore, silver maple
NH	=	northern hardwoods (mixture of white oak, northern red oak, sugar and red maple, yellow and paper birch, white ash, quaking and bigtooth aspen, yellow-poplar and basswood).			
SH	=	southern hardwoods (mixture of southern red oaks, sweetgum, black and water tupelo, flowering dogwood, magnolia, basswood, pecan hickories)			
SCP	=	sycamore, cottonwood, poplar (riparian or riverbanks of midwest is a better descriptor as this abbreviation can be confused with southern coastal plain)			
D-FL	=	Douglas-fir, western larch	NWC	=	northern white cedar
EWP	=	eastern white pine	ESAF	=	Engelmann spruce, subalpine fir
PJ species)	=	pinyon, juniper	SH	=	spruce, hemlock (eastern or western
SYP	=	southern yellow pine	WYP	=	western yellow pine
LPES	=	lodgepole pine, Engelmann spruce	SPF	=	spruce, pine, true fir
SCP	=	southern coastal plain			
PC	=	Pacific coast of U.S. and Canada, including Alaskan coast			
NE	=	New England, or northeast U.S. and eastern Canada			
SW	=	Southwest U.S.			
NRM	=	northern Rocky Mountains; w. Washington, n. Idaho, Montana & Canada			
SRM	=	southern Rocky Mountains (Wyoming, s. Idaho, Utah, Colorado, New Mexico, Arizona w. Texas and northern Mexico)			
BH	=	Black Hills of South Dakota and northern Nebraska			
FB	=	Fog Belt of northern California, north to s. coast of Oregon			
IE	=	Inland Empire (w. Montana, n. Idaho, w. Washington, s.e. British Columbia)			