

BIOL 3610/5610 Dendrology

Fall Semester 2021

Instructor: Dr. Carter

Office: BC 1105 *Herbarium:* BC 1040

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e-mail: Please use the mail tool in BlazeVIEW.

Office Hours (BC 1040): Mon & Wed 11:00 AM–12:30
PM; Thurs 1:

Miscellaneous Required Items

Pencils or pens for recording notes, etc.
Spiral bound notebook, convenient for field trips

Hand-lens with lanyard
200 3X5 inch lined notecards for field quizzes

Additionally, the following are recommended.

Tree identification quizzes. From memory, the student will be required to identify by *family name*, *scientific name (binomial)*, and *common name* major native and naturalized locally occurring trees. These quizzes may be given outdoors on field trips or indoors, as circumstances require. Study specimens protected within plastic sleeves will be available for student use in the laboratory. Photographs of these specimens and specimens in the VSU Virtual Herbarium may be used for these quizzes to supplement living specimens. Collectively, the tree identification quizzes will account for 200 points in determining the overall course grade.

Miscellaneous quizzes and assessments. A number of miscellaneous quizzes and assessments will be given during the semester to be completed or submitted on-line through BlazeVIEW. These miscellaneous quizzes and assessments collectively will account for 200 points in determining the overall course grade.

Course notebook. Students will be required to keep and to submit a course notebook for grading. The following should be emphasized in the course notebook: a summary of the diagnostic characteristics and one or more representative leaves for each species taken up during regular field trips. The course notebook will be evaluated based upon completeness, organization, clarity and neatness. The course notebook is due at the beginning of the final exam period and accounts for 100 points in determining the overall course grade.

Class conduct.

For plant community classification

- Barbour, M.G., M.G. and N.L. Christensen. 1993. Vegetation, pp. 97-131 in: Morin, N.R. (Ed.). Flora of North America, Vol. 1. Oxford University Press. New York.
- Description of the Ecoregions of the United States, compiled by R.G. Bailey, U.S. Forest Service. March 1995. <http://www.fs.fed.us/land/ecosysmgmt/index.html> (Accessed: March 11, 2012)
- Ecological Subregions of the United States, compiled by McNab, W.H. and P.E. Avers. U.S. Forest Service. WO-WSA-5. July 1994. <http://www.fs.fed.us/land/pubs/ecoregions/> (Accessed: March 11, 2012)
- Ecoregions, Nearctic. World Wildlife Fund, 1250 Twenty-Fourth Street, N.W., P.O. Box 97180, Washington, DC 20090-7180. http://www.worldwildlife.org/wildworld/profiles/terrestrial_na.html (Accessed: March 11, 2012)
- NatureServe. 2011. NatureServe Explorer: An online encyclopedia of life [web application]. NatureServe, Arlington, Virginia. <http://www.natureserve.org/explorer> (Accessed: March 11, 2012)
- Peet, R.K., T.R. Wentworth, and P.S. White. 1998. A Flexible, Multipurpose Method for Recording Vegetation Composition and Structure. *Castanea* 63:262 -274.
- Thorne, R.F. 1993. Phytogeography, pp. 132-153 in: Morin, N.R. (Ed.). Flora of North America, Vol. 1. Oxford University Press. New York.
- Wharton, C.H. 1978. Physiography and Biota of Georgia. *BioScience* 28:336-339.
- Wharton, C.H. 1978. The Natural Environments of Georgia. Bulletin 114, Georgia Department of Natural Resources. Atlanta.

Miscellaneous

- Peattie, D.C. 1980. Natural History of Western Trees. University of Nebraska Press. Lincoln. 751 pp.
- Peattie, D.C. 2007. A Natural History of Trees: of Eastern and Central North America. Houghton Mifflin Co. New York. 606 pp.
- Tomlinson, P. B. 2002. The Biology of Trees Native to Tropical Florida. Second Edition. Printed privately. Petersham, Massachusetts. 395 pp.

Week of Oct 4

Lecture: Diversity of Trees

Cornales: Hydrangeaceae, Cornaceae:
Philadelphus; *Cornus*, *Nyssa*: mock oranges;
dogwoods, gums
Ericales: Sapotaceae, Theaceae, Ericaceae,
Ebenaceae, Cyrillaceae, Styraceae,
Symplocaceae: *Sideroxylon*; *Gordonia*,
Stewartia; *Elliottia*, *Kalmia*, *Lyonia*,
Oxydendrum; *Diospyros*; *Cliftonia*, *Cyrilla*;
Halesia, *Styrax*; *Symplocos*: buckthorns; loblolly
bay, silky camellia; mountain laurel, lyonias,
sourwood; persimmon; titis; silverbells,
storaxes; sweetleaf

Midterm: Thurs, Oct 7

*Laboratory: Identification and Classification of
Trees

Week of Oct 11

Fall Break: Mon Tues, Oct 11 12

Lecture: Diversity of Trees

Myrtales: Combretaceae: *Combretum*,
Laguncularia: buttonwood, white mangrove
Malvales: Malvaceae: *Tilia*: basswoods

*Laboratory: Identification and Classification of
Trees

Week of Oct 18

Lecture: Diversity of Trees

Sapindales: Rutaceae, Meliaceae,
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