Biology Departmentt College of Science Mathematics t Valdosta State University

# BIOL3610/5610 t Dendrology

Instructor:Dr. Carter Office:BC 1105 Herbarium:BC 1040 Telephone(229) 333-5338 e-mail: Please use the mail tool in BlazeVI

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# Fall Semester @19

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**Miscellaneous Required Items** 

- x Pencils or pens for recording notes, etc.
- x Spiral bound notebok, convenient for field trips
- x 300 3X5 incluined notecards for field quizzesx Handlens with lanyard

Additionally, the following are recommended.

- x Old clothes, including long pants, and sturdy shoes or boots for field trips
- x Rain gear and warm clothings appropriate
- x Insect repellant for field trips
- x Immediately upon returning from field trips, students are urged to check their bodies thoroughly for

Lecture examinations Two lecture examinations will be given during the semester, one of these prior to midterm. Each of these exams accoust for 150 points in determining the overall course grade

Final examination. A comprehensive inal examination will be gen during the final examination period, which will comprise elements of both lecture and laboratory

Meeting the minimum point requirement for a letter grade does not necessarily **asbat** the student will receive that gradeAssignment of the final grade is the prerogative of the instructor and will be based upon each  $|v|\dot{A}| \mu \circ \dot{s}\mu v \dot{s}[\bullet]\dot{A} \otimes \dot{c} \circ & CE(Cu v U) v \circ \mu v V \otimes \dot{s} & CEv \bullet (v \bullet) \circ \dot{s}v \circ \dot{s}$  positiveattitude as shown through attendance, participation, and cooperation.

Class conductStudents are expected to comport themselves courteously at all times during lecture and laboratory. Disruptive behavior will not be tolerated, and students behavinagdisruptive manner will be asked to relinquish their VSU student identification card and will be removed from class and referred to the Dean of Students for disciplinary action. Refer to the Student Code of Conduct, Appendix A in tSeuMStut Handbook Consumption of food or drink (including water) and wearing of hats or caps is prohibited in the lecture room. Students should be punctual for all scheduled lecture and laboratory meetings, and, except in situations of emergency, students should not departom lecture before being dismissed. Students are to direct their full attention to lecture and are to refrain from unwarranted discourse. Behavior contrary to these guidelines is disruptive.Disruptive behavior will result in deduction of points from time l grade.

Use of cellular telephones, pagersigital cameras and other such communication devices. Use of cellular telephones, pagers, or any similar communication device igital cameras prohibited during lecture examinations or quizzes, unkes expressly authorized by instruct fristudents bring cellular telephones any other similar devices to lecture, it is their responsibility to switch them off prior to the beginning of the lecture period. Ringing, buzzing, or any other sounds emitted such devices will be treated as disruptive behavior on the part of the owner/possessor, and the owner/possessor will be asked to leave lecture immediately.

located in Farbr Hall. The phone numbers are 2295-2498 (V)and 229-375-5871 (VP). For more information, plea•  $\dot{A}$ ]•]š s^h[• •• K((] X

Student Opinion of Instruction (SOIA) the end of the term, students are expected to complete an online SOI survey through SmartEvals. Students will receive email notification through their VSU email addresses when the SOIs available, generally at least one week before the end of the term. SOI responses are anonymous, and instructors and administrators will be able to access the results only after grades have been submitted. Students who withdraw or drop a course walso be sent invitations to complete the Dropped Course Survey. Complete information about the SOIs, including how to access the survey, is available.

#### Supplemental Reading

For current information on classification of angiosperm plant families

Stevens, P. F. (2001 onwards). Angiosperm Phylogeny Website. Version 9, June 2008 [and more or less continuously updated since<a href="http://www.mobot.org/MOBOT/research/APweb">http://www.mobot.org/MOBOT/research/APweb</a> (Accessed March 11, 2012)

For plant community classification

- Barbour, M.G., M.G. and N.L. Christensen. 1999 getation pp. 97131 in: Morin, N.R. (Ed.). Flora of North America Vol. 1. Oxford University Press. New York.
- Description of the Ecoregions of the United States mpiled by R.G. Bailey, U.S. Forest Service. March 1995. http://www.fs.fed.us/land/ecosysmgmt/index.html(Accessed: March 11, 20)12
- Ecological Subregions of the United States mpiled by McNab, W.H. and P.E. Avers. U.S. Forest Service SA(O 5. July 1994 <a href="http://www.fs.fed.us/land/pubs/ecoregions">http://www.fs.fed.us/land/pubs/ecoregions</a> (Accessed: March 11, 20)12
- Ecoregions, Nearctic. World Wildlife Fun**2**50 TwentyFourth Street, N.W.P.O. Box 97180, Washington, DC 200907180.<u>http://www.worldwildlife.org/wildworld/profiles/terrestrial\_na.htm</u>l(Accessed: March 11, 2012)

NatureServe. 201

# TentativeCourseOutline with \*Laboratory Schedule

#### Weekof Aug 19

Classes begin Mon, Aug 19 Lecture: Introduction to Qurse What is a tree? What is a forest? Overview of the Classification of Plants \*Botany Laboratory: Development and Structure of the Woody Plant Body

Weekof Aug26 What is a tree? What is a forest? Overview of the Classification of Plants \*Botany Laboratory: Reproduction in Pine and Oak

# Weekof Sep2

Labor Day Holiday Mon, Sept 2 Diversity of Trees Gymnosperms GNKGO x Ginkgoales: Ginkgoacea@inkgo:ginkgo

Conifers

x Pinales: Cupressaceae, PinaceTaex, aceae: Chamaecyparis, Juniperus, Taxodium; Abies, Pinus, Picea, Tsuga; Taxus, Torrewhite cedars, junipers, baldcypresses; firs, pines, spruces, hemlocks; yews, gopherwood

\*Alternative Assessment: Using the Valdosta State University Virtual Herbaum [VSUVH] to review basic vegetative structure of trees

Weekof Sep9 Lecture: Diversity of Trees Angiosperms ANAGRADE

x Austrobaileyales: Schisandraceae [incl. Illiciaceae]Illicium:Florida anise

MAGNOLIIDS

 X Magnoliales, Laurales: Magnoliaceae, Annonaceae; Lauraceae, Calycanthaceae: Liriodendron, Magnolia; Asimina; Persea, Sassafras, Litsea; Calycanthoragnolias, yellow poplar; pawpaws; redbay, swampbay, sassafras, pondspice; sweetshrub

#### MONOCOTS

x Arecales: Arecacea@abal:cabbage palm

\* Field Labratory: Identification of Trees and Plant Communities Weekof Sep16 Lecture: Diversity of Trees EUDICOTS

- x Proteales, Saxifragales: Platanaceae; Hamamelidaceae, Altingiaceaeatanus; Hamamelis, Liquidambasycamore; witch hazel, sweetgum
- Malpighiaes: Euphorbiaceae, Salicaceae, RhizophoraceaeTriadica; Populus, Salix; RhizophoraChinese tallow; willows, cottonwoods; red mangrove
- x Fabales: Fabacea&cacia, Albizia, Robinia, Gleditsia, Cerciacacias, mimosas, locusts, redbud

\*Field Laboratory: Idetification of Trees and Plant Communities

#### Weekof Sep23

Lecture: Diversity of Trees

 x Rosales: Rosaceae, Rhamnaceae, Ulmaceae, Celtidaceae, Moraceae, melanchier, Crataegus, Malus, Prunus; Rhamnus; Planera, Ulmus; Celtis; Broussonetia, Morusserviceberies, hawthorns, crabapples, plums, cherries; Carolina buckthorn; elms; hackberries; mulberries

\*Field Laboratory: Identification of Trees and Plant Communities

### Week of Sep80

Lecture: Diversity of Trees

- x Fagales: Fagacea@astanea, Fagus, Quercus: chestruts, chinkapins, beeches, oaks
- x Fagales (continued): Betulaceae, Myricaceae, Juglandaceae Inus, Betula; Morella, Myrica; Carya, Juglansalder, birches; bayberries; hickories, walnuts

\*Field Laboratory: Identification of Trees and Plant Communities

#### Week of Oct7

Fall Break Mon Tues, Oct 7 8 Lecture: Diversity of Trees

- x Cornales: Hydrangeaceae, Cornaceae:
  Philadelphus; Cornus, Nyssaock oranges;
  dogwoods, gums
- x Ericales: Sapotaceae, Theaceae, Ericaceae, Ebenaceae, Cyrillaceae, Styraceae, Symplocacea: Sideroxylon; Gordonia, Stewartia; Elliottia, Kalmia, Lyonia, Oxydendrum; Diospyros; Cliftonia, Cyrilla; Halesia,Styrax; Symplocobuckthorns; loblolly bay, silky camellia; mountain laurel, lyonias, sourwood; persimmon; titis; silverbells, storaxes; sweetleaf

Midterm date Thurs, Oct 10 \*Field Laboratory: Identification of Trees and Plant Communities

#### Weekof Oct14

Lecture: Diversity of Trees

- x Myrtales: Combretacea@ombretum, Lagunculariabuttonwood, white mangrove
- x Malvales: Malvaceae Eilia: basswoods
- x Sapindales: Rutaceae, Meliaceae, Anacardiaceae, Sapindace & ncirus, Ptelea, Zanthoxylum; Melia; Rhus, Metopium, Schinus, Toxicodendron; Acer, Aesculus, Sapindus: mockorange, wafer ash, prickly ashes; Chinaberry; sumacs, poisonwood, Brazilian pepper; maples, buckeyes, soapberry

\*Field Laboratory: Identification of Trees and Plant Communities

# Weekof Oct21

Lecture: Diversity of Trees

- x Gentianales: Rubiacea@ephalanthus, Pinckneyabuttonbush, feverbark
- x Lamiales: Oleaceae, Bignoniaceae, Avicenniaeae:Chionanthus, Fraxinus, Ligustrum, Osmanthus; Catalpa; Avicennia: graybeard, ashes, ligustrums, wild olive; catalpas; black mangrove

\*Field Laboratory: Identification of Trees and Plant Communities

# Weekof Oct 28

Lecture: Diversity of Trees

- x Aquifoliales: Aquifoliaceadlex: hollies
- x Apiales: ApiaceaeAralia: À]o[• Á ol]vP •š] l
- x Dipsacales: Adoxacea@ambucus, Viburnum: elderberries, viburnums

\*Field Laboratory: Identification of Trees and Plant Communities

Weekof Nov4

Lecture:

x Biogeography foTrees

x Abscission an@hanging Leaf@or

\*Field Laboratory: Identification of Trees and Plant Communities

Weekof Nov11

Lecture: Introduction to Forest Ecologyd)-4(u)-4(ctio)-2(n)-4(t)-4(d

# BIOL 3610/5610 Dendrology Field Trip and Laboratory Schedule Fall 2019

- Fri., 08/23/2019, 11:00 AM 1:50 PM : Botany Lab (BC 2040)
- Fri. , 08/30/2019: Alternative assessment VSU Virtual Herbarium
- Fri., 09/06/2019, 11:00 AM 1:50 PM: Botany Lab (BC 2040)
- Fri., 09/13/2019, 11:00 AM 1:50 PM : VSU Campus
- Fri., 09/20/2019, 10:00 AM 1:50 PM : Lake Louise Field Station (LLFS), Lowndes Co., GA
- Fri., 09/27/2019, 10:00 AM 5:00 PM: Greenwood Plantation, Lost Creek, Thomas Co., GA
- Fri. , 10/04/2019, 10:00 AM

PM : Highlands Biological Station, Highlands, NC

- Fri. , 10/18/2019, 10:00 AM 1:50 PM : Grand Bay WMA, Lowndes Co., GA
- Fri. , 10/25/2019, 10:00 AM 1:50 PM : vic. Snake Nation Rd, Lowndes Co., GA
- Fri., 11/01/2019, 10:00 AM 1:50 PM : Little River Hwy GA 133 Public Boat Launch, W Valdosta, Lowndes Co., GA
- Fri., 11/08/2019, 10:00 AM 1:50 PM : LLFS, Lowndes Co., GA [alt. Botany Lab (BC 2040) ]
- Sat., 11/ 09/2019, 8:00 AM 9:00 PM: Torreya State Park, vic. Chattahoochee, FL
- Fri., 11/15/2019, 10:00 AM 1:50 PM : LLFS, Lowndes Co., GA [alt. Botany Lab (BC 2040)]
- Fri., 11/ 22/2019, 10:00 AM 1:50 PM: LLFS, Lowndes Co., GA [alt. Botany Lab (BC 2040)]
- Fri., 12/06/ 2019, 10:00 AM 1:50 PM: LLFS, Lowndes Co., GA [alt. Botany Lab (BC 2040)]

8/16/2019