BOT 2710: Practical Plant Taxonomy
Fall, 2017

Course Syllabus and Information

Class Location & Time:
Lecture: Tuesday & Thursday 2nd period (8:30-9:20 AM), Bartram 211

Laboratory: 4 sections (Thurs. per. 6-8; Thurs. per. 10-12; Fri. per. 2-4; Fri. per. 6-8); Rolfs 105

Instructors: Drs. Doug Soltis & Pam Soltis, 301 Dickinson Hall; 273-1963 & 273-1964; E-mail addresses: dsoltis@ufl.edu & psoltis@flmnh.ufl.edu

Office Hours: Wednesday 10:00 - 11:00 AM or by appointment

Teaching Assistants: Blaine Marchant (dbmarchant@gmail.com); Maria Beatriz de Souza Cortez (mariabiacortez@gmail.com)

Herbarium: 379 Dickinson Hall. Herbarium library has useful books on plant systematics and identification and is open from 9:00 AM - 5:00 pm (closed during lunch). Request admittance at Front Desk of Dickinson.

Course Website: Course materials and related information will be posted on the course E-Learning (Canvas) website at http://elearning.ufl.edu/. You are responsible for all announcements made in class and/or posted on the course website for this course. Log in with your gatorlink userID and password.

(2) Laboratory Manual, available as a pdf on course website.
(3) Optional: Castner, J. 2004. Photographic Atlas of Botany. (can also be obtained through lab, usually more cheaply)

Required equipment: Two dissecting needles, single-edged razor blades, forceps. A 10X hand lens is optional.

Grading: Grade based on total of 600 points:
2 tests (100 points each)
10 lab quizzes (10 points each)
lab notebook (50 points; due weekly)
lab practical (50 points)
final exam (100 points)
2 assignments (50 points each; details to come later)
optional extra credit projects (keying - 15 points; plant collection - 15 points, based on a collection of 15 plants, pressed, dried, and identified, with labels, due on Monday of final exam week; see Appendix 2 of text for details of how to identify plants and prepare a
herbarium specimen; movie nights; other opportunities)

All test questions come from information presented in lecture and lab, but READ YOUR BOOKS for context and further information.

Grading Scale:  
90% or above A, A-
80-89% B+, B, B-
70-79% C+, C, C-
60-69% D+, D
59% & below E, failing

Letter grades will be assigned following assessment of the distribution of scores, so these values are approximate.
Note that a C- will not be a qualifying grade for critical tracking courses. In order to graduate, students must have an overall GPA and an upper-division GPA of 2.0 or better (C or better). A C- average is equivalent to a GPA of 1.67, and it therefore does not satisfy this graduation requirement. For more information on grades and grading policies, please visit: http://www.registrar.ufl.edu/catalog/policies/regulationgrades.html.

UF Counseling Services:
- Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:
  - UF Counseling & Wellness Center, 3190 Radio Rd, 392-1575, psychological and psychiatric services.
  - Career Resource Center, Reitz Union, 392-1601, career and job search services.
- Many students experience test anxiety and other stress related problems. “A Self Help Guide for Students” is available through the Counseling Center (301 Peabody Hall, 392-1575) and at their web site: http://www.counsel.ufl.edu/.

Honesty Policy:
- All students registered at the University of Florida have agreed to comply with the following statement: “I understand that the University of Florida expects its students to be honest in all their academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University.”
- In addition, on all work submitted for credit the following pledge is either required or implied: “On my honor I have neither given nor received unauthorized aid in doing this assignment.”
- If you witness any instances of academic dishonesty in this class, please notify the instructor or contact the Student Honor Court (392-1631) or Cheating Hotline (392-6999). For additional information on Academic Honesty, please refer to the University of Florida Academic Honesty Guidelines at: http://www.dso.ufl.edu/judicial/procedures/academicguide.html.

Accommodation for Students with Disabilities:
- Students who will require a classroom accommodation for a disability must contact the Dean of Students Office of Disability Resources, in Peabody 202 (phone: 352-392-1261). Please see the University of Florida Disability Resources website for more information at: http://www.dso.ufl.edu/drp/services/.
It is the policy of the University of Florida that the student, not the instructor, is responsible for arranging accommodations when needed. After notification, the Dean of Students Office of Disability Resources will work with the instructor to accommodate the student.
## Outline of Topics

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<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>August 22</td>
<td>Introduction to systematics (Ch. 1)</td>
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<td>August 24</td>
<td>Nomenclature; principles of systematics; phylogenetics (Ch. 2, 3; Appendix 1)</td>
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<td>Lab 1 Intro to lab; Field techniques; tools of plant identification; keying; Boltaceae; keys, floras, monographs (Appendix 2; Lab 1 and pp 8-10 of lab book)</td>
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<td>August 29</td>
<td>Principles of systematics, phylogenetics continued (Ch. 2)</td>
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<td>August 31</td>
<td>Species and speciation; hybridization and polyploidy (Ch. 6)</td>
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<td>Lab 2 Herbarium tour (pp 8-10 of lab book, from Lab 2); Databases; Phylogeny reconstruction</td>
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<td>September 5</td>
<td>Molecular systematics (Ch. 5)</td>
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<td>September 7</td>
<td>Introduction to the green plants (Viridiplantae) (Ch. 7)</td>
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<td>Lab 3 Intro to georeferencing and use of georeferenced collection data; Molecular sequence alignment</td>
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<td>September 12</td>
<td>Embryophytes, vascular plants, and seed plants: overview (Ch. 7)</td>
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<td>September 14</td>
<td>Lycophytes (Ch. 8)</td>
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<td>Lab 4 Vegetative characters (Ch. 4; Lab 4 of lab book); Alternation of generations; Intro to embryophyte clades</td>
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<td>September 19</td>
<td>Ferns (Ch. 8)</td>
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<td>September 21</td>
<td>Gymnosperms: cycads, Ginkgo, Gnetales (Ch. 8)</td>
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<td>Lab 5 Lycophytes, ferns; use and construction of keys (Lab 5 of lab book)</td>
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<td>September 26</td>
<td>Gymnosperms: conifers (Ch. 8)</td>
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<td>September 28</td>
<td>Angiosperms: overview and basal lineages (Ch. 9, appropriate sections)</td>
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<td>Lab 6 Gymnosperms; key practice (Ch. 8; Lab 6 of lab book)</td>
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<td>October 3</td>
<td><strong>Test 1</strong> (through gymnosperms)</td>
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<td>October 5</td>
<td><em>First Flower</em></td>
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<td>NO LAB: HOMECOMING</td>
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<td>October 10</td>
<td>Angiosperms: magnoliids (throughout rest of semester: read corresponding sections from Ch. 9)</td>
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<td>October 12</td>
<td>Eudicot angiosperms: Overview; Ranunculales, Saxifragales</td>
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<td>Lab 7 Floral characters (Ch. 4, Lab 7 of lab book); Fruit characters (Ch. 4, Lab 7 of lab book)</td>
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<td>October 17</td>
<td>Eudicot angiosperms (rosids): Malpighiales, Cucurbitales</td>
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<td>October 19</td>
<td>WeDigBio International Transcription Event</td>
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<td>Lab 8 Basal angiosperms, magnoliids, Ranunculales, Saxifragales, Malpighiales, Cucurbitales</td>
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October 24  Eudicot angiosperms (rosids): Rosales, Fabales
October 26  Eudicot angiosperms (rosids): Fagales, Myrtales, Brassicales
         Lab 9  Rosales, Fabales, Fagales, Myrtales, Brassicales
October 31  Eudicot angiosperms (rosids): Malvales, Sapindales
November 2  Eudicot angiosperms: Santalales, Caryophyllales
         Lab 10 Malvales, Sapindales, Santalales, Caryophyllales

November 7  Test 2 (through rosids)
November 9  Eudicot angiosperms (asterids): Cornales, Ericales
         NO LAB:  Veterans’ Day Holiday

November 14 Eudicot angiosperms (asterids): Solanales, Gentianales
November 16 Eudicot angiosperms (asterids): Lamiales, Apiales
         SPECIAL EVENT – EVENING OF NOVEMBER 16
         Lab 11 Cornales, Ericales, Solanales, Gentianales, Lamiales, Apiales

November 21 Eudicot angiosperms (asterids): Asterales
November 23 Thanksgiving
         NO LAB:  Thanksgiving

November 28 Angiosperms: monocots
November 30 Angiosperms: monocots
         Lab 12 Asterales, monocots

December 5  Angiosperms: monocots

**FINAL EXAM:**  Tuesday, Dec. 12, 7:30-9:30 am, place to be announced

**LAB WEBSITE:**  e-learning: [http://elearning.ufl.edu/](http://elearning.ufl.edu/)
                  Log in with your gatorlink userID and password