Syllabus
Plant Taxonomy PBIO 4650/6650 ~ Spring semester 2015

- Location: 1501 Miller Plant Sciences; M & W, 10:10-11:00
- Instructor: **Dr. Wendy B. Zomlefer ["Dr. Z"]**, Rm. 2607, 583-0389; wendyz@uga.edu; office hours by appointment; ***the best way to contact me is via e-mail!***

Wk	Lect.	Date	Topic and scheduled Exams/Quizzes
1	1	M, 5 Jan.	Introduction to taxonomy
	2	W, 7 Jan.	Taxonomic principles; cladistics
2	3	M, 12 Jan.	Nomenclature; how to write a definition?
	4	W, 14 Jan.	**QUIZ 1 on previous lecture [nomenclature, cladistics]** Lecture: Introduction to Green Plants and Land Plants
3	--	M, 19 Jan.	****Holiday ~ Martin Luther King Day****
	5	W, 21 Jan.	Land Plants cont. (Mosses)
4	6	M, 26 Jan.	Introduction to Vascular Plants; Lycophytes, Monilophytes
	7	W; 28 Jan.	**QUIZ 2 on previous lecture [seed plants]** Lecture: Introduction to Seed Plants
5	8	M, 2 Feb.	Gymnosperms
	9	W, 4 Feb.	Molecular systematics and Review
6	--	M, 9 Feb.	**EXAM 1: Material through molecular systematics**
	10	W, 11 Feb.	Angiosperms – Introduction to Angiosperms
7	11	M, 16 Feb.	Angiosperms – Basal Angiosperms; Magnoliids: Magnoliaceae, Lauraceae
	12	W, 18 Feb.	Angiosperms – Introduction to Monocots: Araceae, Liliaceae
8	13	M, 23 Feb.	**QUIZ 3 on previous lecture [monocots]** Lecture: Angiosperms – Monocots: Agavaceae, Amaryllidaceae
	14	W, 25 Feb.	Angiosperms – Monocots: Orchidaceae. Arecaceae
9	15	M, 2 Mar.	Angiosperms – Monocots: Poales (Juncaceae, Cyperaceae, Poaceae)
	16	W, 4 Mar.	**QUIZ 4 on previous lecture [Poales]** Lecture: Species, speciation, and infraspecific variation
10	-- --	M, 9 Mar. W, 13 Mar.	****SPRING BREAK****
11	17	M, 16 Mar.	Angiosperms–Intro to Eudicots; Ranunculales (Ranunculaceae), Caryophyllales (Caryophyllaceae)
	18	W, 18 Mar.	Angios–Caryophyllales (Cactaceae), Saxifragales (Hamamelidaceae), Cucurbitales (Cucurbitaceae)
12	--	M, 23 Mar.	**EXAM 2: Basal Angiosperms through Saxifragales**
	19	W, 25 Mar.	Angiosperms– Malphigiales (Euphorbiaceae, Violaceae), Rosales (Rosaceae)
13	20	M, 30 Mar.	Lecture: Angiosperms – Rosales (Rosaceae), cont.; Fabales (Fabaceae)
	21	W, 1 Apr.	Lecture: Angiosperms – Fabales (Fabaceae), cont.
14	22	M, 6 Apr.	Angiosperms – Fagales (Fagaceae), Brassicales (Brassicaceae), Malvales (Malvaceae)
	23	W, 8 Apr.	**QUIZ 5 on previous lecture [Fagaceae, Brassicaceae, Malvaceae]** Angiosperms – Sapindales (Anacardiaceae, Sapindaceae)
15	24	M, 13 Apr.	Angiosperms – Asterids: Ericales (Ericaceae), Solanales (Solanaceae)
	25	W, 15 Apr.	Lecture: Angiosperms – Lamiales (Plantaginaceae, Lamiaceae)
16	26	M, 20 Apr.	**QUIZ 6 on previous lecture [Plantaginaceae, Lamiaceae]** Angiosperms– Apiales (Apiaceae)
	27	W, 22 Apr.	Coevolution
17	28	M, 27 Apr.	Angiosperms–Asterales (Asteraceae)

FINAL: Wed., 29 April, 8:00-11:00
—Comprehensive with emphasis on material Cucurbitales through Asterales

Objectives of course:

- Learn the principles of plant taxonomy.
- Learn basic morphology of plants.
- Learn the characteristics of major plant families.

PBIO 4650 GRADE BASED ON:

• 5 Quizzes (10 points each)	50
• 2 Exams (75 points each)	150
• FINAL	100
• Lab grade	300
• TOTAL points for course	600

PBIO 6650 AND 4650 HONORS GRADE BASED ON:

• 5 Quizzes (10 points each)	50
• 2 Exams (75 points each)	150
• FINAL	100
• Lab grade	500
• TOTAL points for course	800

Quizzes:

- indicated on schedule (on previous lecture)
- 6 quizzes and drop the lowest score

Format of exams:

- short answer (including compare and contrast; keys; simple diagrams)
- definition of terminology
- fill-in blanks (including cladograms)
- (a few) True/False (due to popular demand!)
- (a few) multiple choice (due to popular demand!)
- often *choice* of which questions to answer

Make-up exams:

- *legitimate excuse required* (illness with a doctor's note or other emergency/bereavement with documentation)
- **NO MAKE-UPS FOR QUIZZES** (lowest score is dropped)

Grading:

- Standard points required for letter grades [A = 90-100%; B = 80-89%; C = 70-79%; D = 60-69%]
- +/– grading will be instituted where appropriate
- Graduate students and honors undergrads will have an extra project in lab.
- Undergrad and grad student/honors undergrad grades will be scaled separately.
- **NOTE TO STUDENTS WHO HAVE USED ALL THEIR WP OPTIONS**: An instructor cannot give an *incomplete* unless the student has completed a substantial part of the course.
- **NOTE TO STUDENTS ON ACADEMIC PROBATION**: This is an upper division biology course: your instructor and lab TA are available to help you. Please do your part and attend all lectures and labs.

Attendance and courtesy:

- **Students are expected to attend lectures**. **NOTE**: Handouts will be made available via eLearning Commons but detailed lecture slides/notes will not be posted.
- Please turn off cell phones; do not text-message during class.
- UGA honor code: cheating will be reported to the Office of the Vice President of Instruction.

Texts [bring the books to every lab]:

- *Guide to Flowering Plant Families*, 1994, Zomlefer
- *Manual of the Vascular Flora of the Carolinas*, 1969, Radford et al.