INTRODUCTION TO SEED PLANT TAXONOMY - DRAFT

Biology 324, 2011

Lectures: Tuesday and Thursday 10:00-10:50, FNH 60.

Professor: Quentin Cronk, office: Rm. 222, Beaty Biodiversity Centre
e-mail: quentin.cronk@ubc.ca

Laboratories 2:00-5:00 pm Tuesday or Wednesday.
Tuesday: room 3001 Biological Sciences Bldg.
Wednesday: room 3009 Biological Sciences Bldg.

Laboratory Instructor/Coordinator: Shona Ellis, office: 2523 Biol. Sci. Bldg., phone 604-754-7725, e-mail: shona@mail.ubc.ca

Teaching Assistants: Chris Lee and Erin Manton

TEXTBOOKS and LAB FEES:

Laboratory fee: $20; please bring to first lab.

Laboratory text: Hitchcock, C. L. and A. Cronquist. 1973. Flora of the Pacific Northwest. Seattle: U. of Washington Press. REQUIRED - bring to every lab.

Laboratory Manual: Will be distributed in the first lab.

Lecture text: NONE REQUIRED. For reference, the only modern text is: Judd, W. S., C. S. Campbell, E. A. Kellogg and P. F. Stevens. 2007 (3rd ed.). Plant Systematics, a Phylogenetic Approach. Sunderland, MA: Sinauer Associates, Inc.

Detailed Lecture Notes: available on the course website. Information on accessing this website is on a separate handout. Any problems or questions about the website should be directed to Shona.

IMPORTANT DATES:

Sept 13-14: Fieldtrip to UBC Botanical Garden. Meet at UBC Botanical Garden Entrance.
***Oct 25*:** Lecture midterm examination.
***Dec. 1*:** Collections due.

COLLECTION: Information in the first lab and on the course website.

MARKS IN COURSE: Lecture midterm 30%, Lecture Final 35%, Laboratory Quizzes 25%, Project 10%.

LABORATORY QUIZZES: No lab quizzes the first two weeks of lab, but you can expect them in most other labs, including the last scheduled (conifer) lab.

BIOL/APBI 324 SCHEDULES

LABORATORY SCHEDULE:

DATE	FAMILIES
6-7 Sep	**No Lab – Imagine!**
13-14	**Fieldtrip to UBC Botanical Garden**
20-21	**Flower parts, Basal Angiosperms and Magnoliids** **Eudicots:** Ranunculaceae
27-28	**Core Eudicots:** Caryophyllaceae, Polygonaceae **Rosids:** Onagraceae
4-5 Oct	**Eurosids I:** Fabaceae, Rosaceae
11-12	**Eurosids II:** Brassicaceae, Malvaceae **Basal Asterids:** Ericaceae
18-19	**Euasterids I:** Lamiaceae, Plantaginaceae, Scrophulariaceae
25-26	**Euasterids I:** Boraginaceae, Solanaceae **Euasterids II:** Apiaceae
1-2 Nov	**Euasterids II:** Asteraceae
8-9	**Monocots:** Iridaceae, Liliaceae, Alliaceae, Orchidaceae
15-16	**Fieldtrip to UBC Botanical Garden** – Canopy Walkway
22-23	**Commelinid Monocots:** Poaceae, Cyperaceae, Juncaceae
29/130	**Gymnosperms**

LECTURE SCHEDULE:

Date	Topic
6 Sept.	No School – **Imagine That!**
8	1. Introduction, Flower Parts
13	2. Primitive Flowers
15	3. Major Groups; Stamens
20	4. Perianth Evolution
22	5. Floral Evolution
27	6. Carpels and Fruits
29	7. Inflorescences
4 Oct	8. Mating Systems
6	9. Pollination Syndromes
11	10. Nomenclature
13	11. Variation and Evolution
18	12. Plant Evolution
20	13. Genomes and Chromosomes
25	**MID TERM EXAM**
27	14. Hybridization and Polyploidy
1 Nov	15. Asteraceae
3	16. Taxonomic Characters
8	17. Orchidaceae
10	
15	18. Types of Classifications
17	19. Chemotaxonomy
22	20. Grasses, Sedges, Rushes
24	21. Biosystematics
29	22. Gymnosperms
1 Dec	23. Flowering Plant Classification