BOT 5725
Taxonomy of Vascular Plants
Spring 2020

Instructors:
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Office Hours: By appointment

Credits: 4

Herbarium: 379 Dickinson Hall: phone: 273-1990. Library is open between 9:00 am and 5:00 pm, but plant collection usage restricted to faculty or graduate students with approved systematic research projects.

Lecture: Tuesday & Thursday, periods 6-8 (12:50-3:50 pm); Rolfs Hall room 105.

Textbook (required): Judd et al. (2016) *Plant Systematics: A Phylogenetic Approach*. Plus additional readings to be provided as PDFs on Canvas.

Laboratory tools: 2 dissecting needles, package of razor blades (or scalpel), tweezers, 10X hand-lens.

Grading: One mid-term exam (45% of final grade), one final exam (45% of final exam), class participation (10% of final grade). Grade based on total number of points, with 90% or above an "A", 89-80% "B", 79-70% "C", 69-60% "D", and below failing; plus and minus grades will be used. Exams will be based on lecture and laboratory material.

Outline of lectures and labs – Spring 2020

Week 1:	Who's gone?		
7 Jan		PS	Introduction: What is taxonomy? Basic principles, digital resources
9 Jan		LM	12:50-2pm (Rolfs): Field and herbarium methods; identification and introduction to nomenclature 2:10pm (Dickinson): Herbarium Tour
Week 2:			
14 Jan	Doug, Pam	NC	Nomenclature
16 Jan	Emily	PS	Phylogenetics
Week 3:			
21 Jan	Lucas, Doug, Pam	ES	Characteristics of vascular plants: a brief evolutionary history, seed plant relationships
23 Jan	Lucas, Doug, Pam	ES	Lycophytes and Monilophytes
Week 4:			
28 Jan	Doug	ES	Cycads and Ginkgo
30 Jan	Doug	ES	Conifers and Gnetophytes
Week 5:			
4 Feb	Doug, Pam, Emily	LM	Angiosperm morphology overview
6 Feb		DS	Introduction to flowering plants and phylogenetic relationships of major clades
Week 6:			
11 Feb	Doug, Pam	LM	Magnoliid clades
13 Feb	Doug, Pam	ES	Hybridization, polyploidy, and apomixis
Week 7:			
18 Feb	Lucas	PS	Monocots I
20 Feb	Lucas	PS	Monocots II
Week 8:			

25 Feb	Lucas	PS	Monocots III
27 Feb	Lucas		**Exam #1**
			Spring Break
Week 9:			
10 Mar		DS	Ranunculales, Proteales, Saxifragales
12 Mar		LM	Oxalidales, Malpighiales (axile taxa)
Week 10:			
17 Mar	Doug, Pam	LM	Malpighiales (parietal taxa), Fabales, Rosales
19 Mar		DS	Rosales, cont. (former Urticales), Fagales
Week 11:			
24 Mar	Lucas (Doug, Pam?)	DS	Cucurbitales, Myrtales
26 Mar	Lucas, (Doug, Pam?)	DS	Brassicales, Malvales
Week 12:			
31 Mar	Lucas, Pam	DS	Sapindales, Introduction to Superasterids
2 Apr		LM	Caryophyllales, Santalales
Week 13:			
7 Apr		LM	Cornales, Ericales
9 Apr		NC	Lamiids, part I
Week 14:			
14 Apr	Pam	NC	Lamiids, part II
16 Apr	Pam	NC	Campanulids, part I
Week 15:			
21 Apr		NC	Campanulids, part II
Week 16:			
27 Apr			**Final Exam: 4/27/2020 @ 7:30 AM - 9:30 AM**