

TROPICAL BOTANY 2022 (BOT 5685C)

A field course sponsored by Florida International University, the University of Florida, the International Center for Tropical Botany, The Kampong of the National Tropical Botanical Garden, Fairchild Tropical Botanic Garden, and Montgomery Botanical Center

Classes start at 8:00 AM and usually finish at 5:30 PM; field trips will finish somewhat later. Lectures and laboratories will be held in the Science Village at Fairchild Tropical Botanic Gardens. We will make extensive use of the plant material at both The Kampong and Fairchild Tropical Botanic Gardens, and we will also use the cycad and conifer collections at the Montgomery Botanical Center.

Sun	May 08	ARRIVE (and check into dormitory at The Kampong).
Mon	09	Orientation (at The Kampong); introduction to the course [all]; the phylogenetic approach [LM]; [<i>Walking tour of The Kampong, and tram ride through Fairchild Tropical Botanic Garden (FTBG).</i>]
Tue	10	Overview of vegetative morphology: architectural models, stems, leaves, roots; lab on anatomy of roots, stems and leaves, [CB]
Wed	11	Tropical Communities – "Top Ten" Families. <i>Fieldtrip: Deering Estate (in afternoon)</i> [CB, with fieldtrip led by all].
Thur	12	Introduction to Tracheophyta and Spermatophyta: Cycads and Conifers [LM]. [<i>Visit Montgomery Botanical Center.</i>]
Fri	13	Introduction to Angiospermae, with a focus on floral and fruit morphology, pollination biology and fruit dispersal; lab on fruit dispersal and pollination syndromes [CB covering fruits and dispersal, LM covering flowers and pollination]].
Sat	14	<i>Field trip: Montgomery Botanical Center—walking tour</i> (optional) [LM], Specimen preparation in the afternoon [LM]

Sun	15	FREE
Mon	16	Primitive angiosperms and Magnoliidae: Nymphaeales, Austrobaileyales, Magnoliales (Oscar Valverde-Barrantes), Laurales, and Piperales [LM].
Tue	17	Monocotyledoneae: Alismatales, Liliales (emphasis on Smilacaceae), Asparagales (emphasis on woody taxa, orchids), Dioscoreales [LM].
Wed	18	Monocotyledoneae: Commelinidae: Poales (LM) and Zingiberales [Elliot Gardner].
Thur	19	Monocotyledons: Arecales/Palmae and Pandanales [Scott Zona/Larry Noblick]
Fri	20	<i>Field Trip: Everglades National Park</i> [all].
Sat	21	<i>Optional fern lecture</i> [Jen Poseley, Sally Chambers].

Sun	22	FREE
Mon	23	Eudicotyledoneae: basal-groups & Rosidae: Ranunculales, Proteales, Dilleniales, Zygophyllales, Oxalidales [LM], and Fabales [CB].
Tue	24	Rosidae, cont.: Malpighiales and Cucurbitales [LM].
Wed	25	Rosales [Elliot Gardner], Brassicales [LM], and Malvales [CB].
Thur	26	Myrtales [LM] and Sapindales [CB].
Fri	27	Introduction to Superasteridae: Santalales and Caryophyllales [LM].
Sat	28	<i>Field Trip: Gifford Arboretum</i> (University of Miami) – half day [all]; afternoon lecture on Fagales [Oscar Valverde-Barrantes].

Sun	29	FREE
Mon	30	Asteridae: Ericales, Aquifoliales [CB], and Gentianales [Elliot Gardner].
Tue	31	Lamiales [Andre Naranjo].

Wed Jun 01 Solanales, Apiales, and Asterales [LM].
Thur 02 *Field Trip: Florida Keys (Windley Key, Long Key)* [all] {overnight in Keys}
Fri 03 *Field Trip: Bahia Honda, Key Deer Preserve on Big Pine Key* [all]
Sat 04 Review & Course overview [+ Evening Party].

Sun 05 DEPARTURE.
