BOT 6935/ZOO 6927: MOLECULAR SYSTEMATICS

FALL, 2016; 2 CREDITS
Lecture M, T 12:50 pm; 371 Dickinson
Doug Soltis, Pam Soltis, Ryan Folk

Week	**Topic**
Aug. 22	Overview; chromosome evolution; Modern cytogenetics
Aug. 29	Structure, organization, and evolution of genomes
Sept. 5	Labor Day, no class; Genomes, cont.
Sept. 12	DNA sequencing
Sept. 19	DNA sequencing; Tour of ICBR core facility
Sept. 26	Sequence Alignment
Oct. 3	Overview of phylogenetic methods
Oct. 10	Phylogenetic methods, cont.
Oct. 17	Exam 1; Phylogenomics
Oct. 24	Phylogenomics
Oct. 31	Reticulation; Dated trees and divergence time estimation
Nov. 7	Population markers
Nov. 14	Population methods: e.g., clustering, AMOVA, networks, trees
Nov. 21	Integrating phylogenies and niche models, etc.
Nov. 28	Miscellaneous topics: e.g., supertrees; online data resources; other
Dec. 5	Presentations

Contact Information:

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Course Website:

Via Canvas: elearning.ufl.edu

Grades:

Midterm Exam:	35%
Final Exam:	25%
Miscellaneous Assignments:	20%
Presentation:	10%
Participation:	10%