

EEB 130 - Principles of Systematic Biology

Tentative Lecture Schedule - Spring Quarter 2008

MON	31 MAR	Introduction
WED	2 APR	Historical aspects of taxonomy
FRI	4 APR	Linnaean hierarchy
MON	7 APR	Type concept
WED	9 APR	Rules of nomenclature I
FRI	11 APR	Rules of nomenclature II
MON	14 APR	Taxonomic publication
WED	16 APR	Evolutionary systematics
FRI	18 APR	Phenetics
MON	21 APR	Cladistics/Phylogenetics
-----Cut-off for 1 st exam materials-----		
WED	23 APR	Kinds of data used in systematics
FRI	25 APR	FIRST EXAMINATION
MON	28 APR	Characters and states
WED	30 APR	Coding and scaling characters
FRI	2 MAY	Ingroups, outgroups, and ordering and rooting of characters
MON	5 MAY	Wagner analysis, maximum parsimony
WED	7 MAY	Maximum likelihood
FRI	9 MAY	Bayesian inference
MON	12 MAY	Alternative methods
-----Cut-off for 2 nd exam materials-----		
WED	14 MAY	Consensus methods
FRI	16 MAY	Combination techniques, total evidence
MON	19 MAY	SECOND EXAMINATION
WED	21 MAY	Methods of comparing phylogenies I
FRI	23 MAY	Methods of comparing phylogenies II
MON	26 MAY	[Holiday]
WED	28 MAY	Applications; biogeography
FRI	30 MAY	Applications; ecology, evolution
MON	2 JUN	Applications; biodiversity and conservation
WED	4 JUN	Applications; coevolution
FRI	6 JUN	Current and future issues in systematics; evaluations
WED	11 JUN	FINAL EXAMINATION (11:30 AM - 2:30 PM)

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Revised Discussion Schedule - Spring Quarter 2008

- 3 APR Introduction
- 10 APR Perspectives on systematics
Discussion of: Raven et al. (1971), Blackmore (1996), Pennisi (2000)
- 17 APR "Imperialism" in systematic biology
Discussion of: Herrera-Macbride (1989), Schrock (1989), Pearson (1989)
- 24 APR Review of schools of systematic thought
Discussion of: Mayr and Bock (2002)
Review for 1st lecture exam
- 1 MAY Project Part I (Characters and character matrix) handed out
Return of 1st exam
- 8 MAY Project Part I (Characters and character matrix) due = 25 points*
Project Part II (Primary data analysis) handed out
- 15 MAY Adam: Phylogenetic classification
Discussion of: Wiley et al. (1991) Chap. 6
Project Part II (Primary data analysis) due = 25 points
Project Part III (Final write-up) handed out
Review for 2nd lecture exam
- 22 MAY Discussion of taxonomic alternatives I (bar-coding):
Smith (2005), Will et al. (2005), Hebert and Gregory (2005),
Trewick (2008). Field trip to Dickey Collection
- 29 MAY Return of 2nd exam
Project Part II graded and returned
Project Part III (Final write-up) due = 100 points
Discussion of taxonomic alternatives II (PhyloCode):
Pennisi (2001), Harris (2005)
- 5 JUN The future of systematics
Adam: Fate of Systematics Agenda 2000
Discussion of: Wilson (1989), Zaretell and Rassam (2003)
Review for final
Student evaluations

*to be handed back in lecture 15 May