## INVERTEBRATE PALEONTOLOGY SPRING, 2000 LECTURE/LAB SCHEDULE

Semester Schedule Based on Last Time Course Was Taught

Because this course continues to evolve, the schedule below is tentative and subject to change. Any significant changes will be announced in class.

## LAB TESTS

Note that lab tests are not taken during the regularly scheduled lab time. Rather a several day period will be scheduled for the lab test, and a tray of test specimens placed in one of the cabinets. You may take the test any time during the several day period, at a time convenient to yourself. That is, each of you will likely take the test alone. The Honor Code of JMU applied to the taking of these tests. I expect that each of you will abide by the rules of honor and honesty.

WEEK 1	LAB: STROMATOLITES
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WEEK 2	Lab: Calcareous Algae
17 M 19 W 21 F	Major Developments in The History of Life And Earth  Fractal Geometry And The Patterns of Life  The Problem of Problems  Non-equilibrium Thermodynamics - Getting Around The 2nd Law  Determinism  Chaos Theory - The Period Doubling Route to Chaos  Strange Attractors
WEEK 3	LAB: ARTIFICIAL LIFE EXERCISES
24 M	Artificial Life Systems
26 W	Computer Simulations on Life3000 Positive and Negative Feedback and Evolution Evolution of Evolutionary Theory
28 F	Evolution of Evolutionary Theory
WEEK 4	Lab: Protists
FEBRUA 2 W	RY Lovelock's Gaia Hypothesis  RY

WEEK 5	LAB: Sponges
7 M	Archean Daisyworld; Proterozoic Ecosystems
9 W	Proterozoic Ecosystems
11 F	Seminar: Archaean and Proterozoic Daisyworlds
WEEK 6	LAB: CNIDARIA
	(END LAB TEST ONE)
14 M	Benthic Moneran and Protoctist Fossil Record
16 W	Benthic Moneran and Protoctist Fossil Record
18 F	Pelagic Protists: Fossil Record and Paleoenvironmental Interpretations
WEEK 7	LAB: GASTROPODA
21 M	Pelagic Protists: Fossil Record and Paleoenvironmental Interpretations
23 W	Pelagic Protists: Fossil Record and Paleoenvironmental Interpretations
25 F	The Phanerozoic Record of Life (Principles, Riphean, Vendian, Tommotian)
WEEK 8	Lab: Bivalvia
MARCH	
1 W	The Phanerozoic Record of Life (Paleozoic)
	I S Recess
WEEK 9	Lab: Cephalopoda
15 W	The Phanerozoic Record of Life (Mesozoic)
17 F	
WEEK 1	D LAB: TRILOBITA
	(END LAB TEST TWO)
20 M	The Phanerozoic Record of Life (Mesozoic)
22 W	The Phanerozoic Record of Life (Cenozoic)
24 F	
WEEK 1	1 LAB REVIEW
27 M	
27 W	Origin of Multicellularity (Biological Principles)  Origin of Multicellularity (Biological Principles)
31 F	

APRIL  3 M Origin of Multicellularity (Geologic R  5 W Origin of Multicellularity (Geologic R  7 F Seminar on the Problem of the Origins of Multicel	Record)
MERICAR LAR. DOVOZOA AND CRADIOLITA	
WEEK 13 LAB: BRYOZOA AND GRAPTOLITA	
10 M	
Functional Organizations and Adaptations of C  12 W Organization and Evolutionary Relationships of True Coel  14 F Coelomate Evolutionary Record and Adaptive Str  Is There Progress in Coelomate Evo	lomates rategies
WEEK 14 LAB: ECHINODERMATA	
17 M Extinction: Coming to Grips with the Fact Most Species Are	
19 W Extinction: Coming to Grips with the Fact Most Species Are	
21 F Extinction: Coming to Grips with the Fact Most Species Are	Extinct
WEEK 15 LAB: REVIEW	
(END LAB TEST THREE: COMPREHENSIVE)	
24 M	-
26 W Paleoecology: A Silurian E 28 F Reading Day/Snow Make-	-
Finals Week	
MAY	
1 M	
3 W	12:30 1
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<sup>&</sup>lt;sup>1</sup> Since all lecture tests are take home, the final exam is also a take home. Which means that the final exam will not be due at the final exam time. Instead we will schedule the final lab test for the regularly scheduled exam time. The lecture portion will be due some time later in the week, at a mutually convenient time to the class members and myself.