

Biology 322 – 2020 Biology of Marine Invertebrates – Lecture and Laboratory Schedule

DATE	LECT. NO.	LECTURE TOPIC	LAB EXERCISES & DISCUSSION GROUPS
Mon Jan 06	1	Introduction to course; begin suspension feeding	---
Thu Jan 09	2	Nutrition – suspension feeding	
Mon Jan 13	3	Nutrition – uptake dissolved organic matter	---
Thu Jan 16	4	Nutrition – animal-bacterial symbioses	#1 Suspension Feeding – I (Discussion #1) Choose partner & animals for Comp. Anatomy Project
Mon Jan 20	5	Nutrition – animal-bacterial symbioses; sulfide tolerance	---
Thu Jan 23	6	Nutrition – animal-algal symbioses	#2 Suspension Feeding – II Group report for Discussion #1 due Final decision on animals for Comp. Anatomy Project Choose partner(s) and specimen for SEM Project
Mon Jan 27	7	Nutrition – animal-algal symbioses; UV tolerance	---
Thu Jan 30	8	Musculoskeletal systems – isometry and allometry	#3 Symbioses (Discussion #2) Prepare SEM specimens Proposal for Comparative Anatomy Project due
Mon Feb 03	9	Musculoskeletal systems – skeletal and muscle materials	---
Thu Feb 06	10	Musculoskeletal systems – rigid skeletons	#4 Size and Shape (Discussion #3) Group report for Discussion #2 due
Mon Feb 10	11	MIDTERM LECT. EXAM – lectures 1-10 inclusive	---
Thu Feb 13	12	Musculoskeletal systems – hydrostatic skeletons	#5 Comparative Anatomy Project – study animal #1
Feb 17-21		READING BREAK	READING BREAK
Mon Feb 24	13	Musculoskeletal systems – pliable skeletons	---
Thu Feb 27	14	Defense – structural defenses	#6 Comparative Anatomy Project – study animal #2 Group report for Discussion #3 due
Mon Mar 02	15	Defense – chemical defenses	---
Thu Mar 05	16	Defense – behavioural defenses	#7 Mount SEM specimens on stubs (Discussion #4) Sign-up for SEM appointments in EM Lab (Cun 065)
Mon Mar 09	17	Defense – induced defenses	---
Thu Mar 12	18	Biom mineralization	#8 Muscle and Skeletal Systems SEM imaging appointments Group report for Discussion #4 due
Mon Mar 16	19	Biom mineralization & ocean acidification	---
Thu Mar 19	20	Reproduction – external & internal fertilization	#9 Biom mineralization Comp. Anatomy project reports due at beginning of lab
Mon Mar 23	21	Reproduction – protection & provisioning of offspring	---
Thu Mar 26	22	Reproduction – settlement & metamorphosis	#10 Reproduction & Development Lab notebooks handed-in at end of lab
Mon Mar 30	23	Reproduction – dispersal & delay of metamorphosis	---
Thu Apr 02	24	Reproduction – carry over effects & other	#11 SEM project presentations (Power Point)