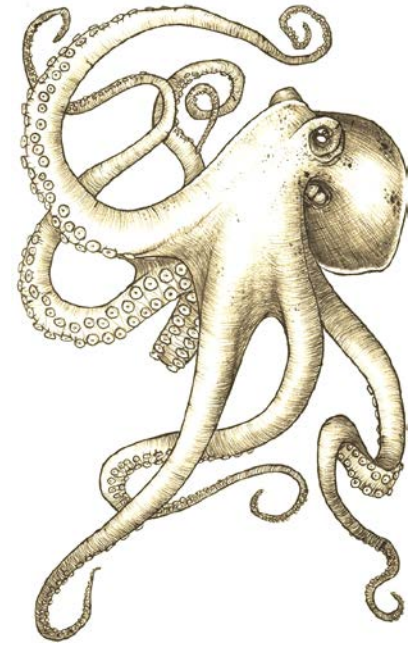


Fall 2017

SYLLABUS

BIO 318 - 001 **Invertebrate Zoology** 4.0 credit hours

TIME: 12:00 – 1:15 PM TR
 PLACE: Auditorium (1105) and 1209 MG (Lab)
 INSTRUCTOR: Joseph Pawlik
 OFFICE: 2333 MG
 OFFICE HOURS: By appointment.
 TEXT: **Living Invertebrates**, 1987, by Pearse/Buchsbaum, Blackwell .
 Out of print – cheap copies online at Abebooks, Amazon,
 eBay, or copies available for use in lab



GRADING: 40% on 4 of 5 1-hour exams (1 throw-out), 30% on final; 30% on lab. Grades are based on the mean and standard deviation of total points for both lecture and lab. Exams must be taken when scheduled; a missed exam will be considered a throw-out -- there will be **ABSOLUTELY NO EXCEPTIONS** to this policy.

THE DEPT. OF BIOLOGICAL SCIENCES STRONGLY SUPPORTS THE ACADEMIC HONOR CODE AS STATED IN "THE STUDENT HANDBOOK AND CODE OF STUDENT LIFE" AND WILL NOT TOLERATE ACADEMIC DISHONESTY.

NOTE: You **MUST** also be enrolled in LABORATORY (BIO 318-200).

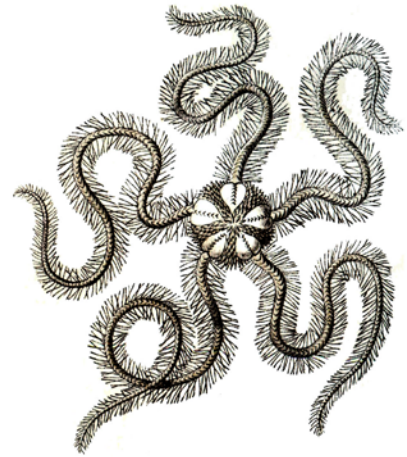
Please note: Cell phones are banned from lectures! Laptop users must sit in last row.

* * * * * **COURSE SCHEDULE** * * * * *

Aug 17 (R)	Course introduction. Origins of life and invertebrates. Chpts. 1, 30.	Oct 17 (T)	Annelida, Other worm phyla. Chpt. 18
Aug 22 (T)	Origins, cont.	19 (R)	EXAM 3 , Arthropods. Chpt. 20.
24 (R)	Jargon, Protozoa. Chpt. 2.	Oct 24 (T)	Arthropods, Crustacea. Chpt. 21.
Aug 29 (T)	Protozoa	26 (R)	Crustacea.
31 (R)	Porifera. Chpt. 3	Oct 31 (T)	Chelicerata, Myriapoda. Chpts. 22, 23.
Sep 05 (T)	Porifera, Cnidaria. Chpts 5, 6.	Nov 02 (R)	Uniramia. Chpt. 24.
07 (R)	EXAM 1 , Cnidaria.	Nov 07 (T)	Uniramia, Onychophora. Chpt. 19.
Sep 12 (T)	Cnidaria, Ctenophora. Chpt. 7.	09 (R)	EXAM 4 , Lophophorates. Chpt. 26.
14 (R)	Platyhelminthes. Chpts. 8-10.	Nov 14 (T)	Chaetognatha, Echinodermata Chpts. 25, 27
Sep 19 (T)	Platyhelminthes, Gnathostomulida Mesozoa, Nemertea. Chpt. 4, 11.	16 (R)	Echinodermata
21 (R)	Nematoda. Chpt. 12.	Nov 21 (T)	Hemichordata, Chordata. Chpts. 28, 29, 30
Sep 26 (T)	Pseudocoelomates, Meiofauna, Tardigrada. Chpts. 13, p. 316.	23 (R)	<i>Holiday</i>
28 (R)	EXAM 2 , Mollusca. Chpts. 14, 15.	Nov 28 (T)	EXAM 5
Oct 03 (T)	Mollusca		
05 (R)	<i>Holiday</i>		
Oct 10 (T)	Mollusca, Annelida Chpts. 16, 17.		
12 (R)	Annelida.	Dec 08 (F)	FINAL EXAM 11:30 – 2:30PM

Fall 2017

SYLLABUS



BIO 318-200: LABORATORY: Invertebrate Zoology

TIME: 2:00 – 4:50 PM, T

PLACE: 1209 MG

INSTRUCTOR: Joseph Pawlik
(see Syllabus for LECTURE)

NOTE: You MUST be enrolled in LECTURE (BIO 318).

TEXT: None required. You must buy a RING BINDER
(see below).

GRADING: Lab grade is 30% of course grade. Breakdown of lab grade: 30% on notebooks, 30% on midterm and 40% on final. Exams must be taken when scheduled -- there will be **ABSOLUTELY NO EXCEPTIONS** to this policy.

NOTEBOOKS: You must keep a RING BINDER containing notes of your observations made during class. The ring binders are available at the bookstore: 1"- spine, D-ring, any color. **YOU MUST USE THIS KIND OF RING BINDER.** You will also need "3-hole" filler paper for inside the binder. For each station of a lab, you will write the date and station number at the top of a new sheet and take notes **FOR THAT STATION ONLY.** You will sort the sheets for each lab. When scheduled, you will leave your notebooks in 1209 CMS and they will be graded.

ATTENDANCE: Lab stations will be set-up and available M-W, allowing students to do labs in their own time and at their own pace. However, exams **must be taken** during class time.

* * * * * **LAB SCHEDULE** * * * * *

Aug	22	(T)	Protozoa
	29	(T)	Sponges
Sep	05	(T)	Cnidaria; <i>Notebooks Due (note: M is Labor Day!)</i>
	12	(T)	Platyhelminthes
	19	(T)	Pseudocoelomates
	26	(T)	Mollusca
Oct	03	(T)	<i>NO LAB - Holiday</i>
	10	(T)	Annelida
	17	(T)	MIDTERM EXAM, Notebooks Due
	24	(T)	Arthropods I
	31	(T)	Arthropods II
Nov	07	(T)	Lophophorates
	14	(T)	Echinodermata
	21	(T)	Hemichordata, Chordata <i>Note: short week!</i>
	28	(T)	FINAL EXAM, Notebooks Due

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GOALS FOR **BIO 318** (Lecture and Lab): By the end of this class, students will be able to:

- (1) Explain the process by which life and invertebrate animals originated on earth.
- (2) Identify the phyla of invertebrate animals, and recognize their distinguishing features.
- (3) Compare the body plans of major taxa, and explain how morphology relates to trophic mode.
- (4) Assess the methods by which zoologists have historically categorized invertebrates.
- (5) Explain convergent evolution of unrelated invertebrate taxa.
- (6) Predict differences in organ systems for respiration and excretion based on size and habitat.
- (7) Understand differences in life histories of major invertebrate taxa.