

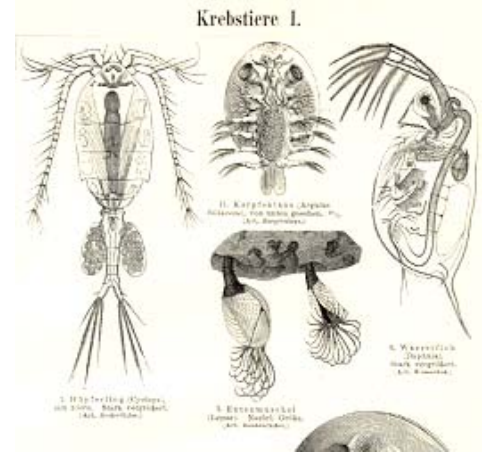
Spring 2012

SYLLABUS

BIO 318 - 001 Invertebrate Zoology 4.0 credit hours

TIME: 1:00 – 2:15 PM TR
PLACE: CMS Auditorium, 1105 and 1209 (lab)
INSTRUCTOR: Joseph Pawlik
OFFICE: 2333 MG
OFFICE HOURS: 12:00-1:00 TR or by appointment.

TEXT: **Living Invertebrates**, 1987, by Pearse/Buchsbaum, Blackwell/Boxwood Press.
Out of print – cheap copies online at Abebooks, Amazon, or used bookstores.
Several copies available for use in lab and to check out.



GRADING: 40% on 4 of 5 1-hour exams (1 throw-out), 30% on final; 30% on lab; grading on a modified curve. 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 or 201).

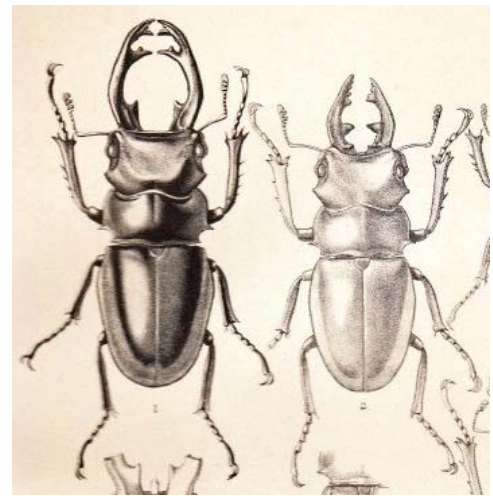
PLEASE NOTE: laptops, cell phones and other electronic devices are banned from lectures!!

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

Jan 12 (R)	Course introduction. Origins of life and invertebrates. Chpts. 1, 30.	Mar 13 (T)	<i>Holiday</i>
		15 (R)	<i>Holiday</i>
Jan 17 (T)	Origins, cont.	Mar 20 (T)	EXAM 3 , Arthropods. Chpt. 20
19 (R)	Jargon, Protozoa. Chpt. 2.	22 (R)	Arthropods, Crustacea. Chpt. 21.
Jan 24 (T)	Protozoa	Mar 27 (T)	Crustacea.
26 (R)	Porifera. Chpt. 3	29 (R)	Chelicerata, Myriapoda. Chpts. 22, 23.
Jan 31 (T)	Porifera, Cnidaria. Chpts 5, 6.	Apr 03 (T)	Uniramia. Chpt. 24.
Feb 02 (R)	EXAM 1 , Cnidaria.	05 (R)	<i>Holiday</i>
Feb 07 (T)	Cnidaria, Ctenophora. Chpt. 7.	Apr 10 (T)	Onychophora, Lophophorates. Chpts. 19, 26.
09 (R)	Platyhelmenthes. Chpts. 8-10.	12 (R)	EXAM 4 , Chaetognatha. Chpt. 25
Feb 14 (T)	Platyhelmenthes, Gnathostomulida Mesozoa, Nemertea. Chpt. 4, 11.	Apr 17 (T)	Echinodermata. Chpt. 27
16 (R)	Nematoda. Chpt. 12.	19 (R)	Echinodermata, Hemichordata. Chpt. 28.
Feb 21 (T)	Pseudocoelomates, Meiofauna, Tardigrada. Chpts. 13, p. 316.	Apr 24 (T)	Chordata. Chpts. 29, 30.
23 (R)	EXAM 2 , Mollusca. Chpts. 14, 15.	26 (R)	EXAM 5
Feb 28 (T)	Mollusca	May 03 (R)	FINAL EXAM 11:30 – 2:30PM
Mar 01 (R)	Mollusca, Annelida Chpts. 16, 17.		
Mar 06 (T)	Annelida		
08 (R)	Annelida, Other worm phyla. Chpt. 18		

Spring 2012

SYLLABUS



BIO 318-200, 201: **LABORATORY: Invertebrate Zoology**

TIME: 2:30 – 5:30 pm, T or R
PLACE: 1209 MG
INSTRUCTOR: Joseph Pawlik
(see Syllabus for LECTURE)

NOTE: You MUST be enrolled in LECTURE (BIO 318-001) to take this course!
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" wide 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: Provided there is no overcrowding, you can attend lab on either day.

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

Jan	17 or 19	(T or R)	Protozoa
	24 or 26	(T or R)	Porifera
	31 or 02	(T or R)	Cnidaria; <i>Notebooks Due</i>
Feb	07 or 09	(T or R)	Platyhelmenthes
	14 or 16	(T or R)	Pseudocoelomates
	21 or 23	(T or R)	Mollusca
	28 or 01	(T or R)	Annelida
Mar	06 or 08	(T or R)	MIDTERM EXAM, Notebooks Due
	13 or 15	(T or R)	No Lab - Holiday
	20 or 22	(T or R)	Arthropods I
	27 or 29	(T or R)	Arthropods II
Apr	03 or 05	(T or R)	Lophophorates -- Note: holiday week
	10 or 12	(T or R)	Echinodermata
	17 or 19	(T or R)	Hemichordata, Chordata
	24 or 26	(T or R)	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 they impact morphological diversity.
 - (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.