

INVERTEBRATE ZOOLOGY, BY 255

FALL SEMESTER, 2007

	Lecture Instructor	Laboratory Instructors
Name	Dr. Jim McClintock	Warren Jones, Gil Koplovitz
Office	Campbell Hall 368	CH 374, CH 252
Telephone	975-2525	934-8313, 934-8322
Email	mcclinto@uab.edu	warrentjones@uab.edu gil@uab.edu
Office Hours	By Appointment	By Appointment

Prerequisite: BY 124 (or permission from Course Master).

Suggested Textbook: *Biology of the Invertebrates*, Pechenik, 5^h Ed., McGraw Hill Press.

Required Laboratory Manual: *Invertebrate Zoology: A Laboratory Manual*, Wallace and Taylor, 6th Ed., Prentice Hall Publishers.

Course Description: Sophomore-level introduction to the biology of selected groups of terrestrial, freshwater and marine invertebrate animals.

Course Objective: To introduce students to the taxonomy, functional morphology, physiology and ecology of invertebrate animals. An accompanying laboratory complements the lecture portion of the course, allowing students to become familiar with various representative and common invertebrates. In addition, an optional weekend field trip to the Dauphin Island Sea Laboratory (Mobile Bay, AL) including a collecting cruise aboard the Research Vessel Verrill provides an opportunity to examine marine invertebrates inhabiting Gulf Coast environments.

Course Composition: Two lecture sessions and one laboratory session weekly, three lecture exams, three laboratory exams, and optional Dauphin Island field trip. Note that the final lecture exam is not cumulative.

Laboratory: The laboratory instructor provides for all aspects (teaching, examination, grade evaluation) of the laboratory portion of this course.

Course Grade:

	Lecture (60%)	Laboratory (40%)
Exam 1	20 %	10 %
Exam 2	20 %	10 %
Exam 3	20 %	10 %
Participation/Attendance	N/A	10 %
Total	60%	40%

Attendance and Makeup Policy: Students are responsible for all materials presented in lecture (including guest lectures) and in the laboratory. Lecture or laboratory exams missed may be rescheduled only for valid health or catastrophic reasons. Although covering the same material, the format of makeup exams may differ from that of the original exam and may include oral examination. Due to the use of live animals (approved by the UAB Institutional Animal Care and Use Committee), some laboratory materials may only be available during the scheduled laboratory periods and not available for makeup sessions.

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LECTURE SCHEDULE

DATE	TOPIC (Recommended reading chapter)	FORMAT
Wed 8/22	Introduction to Metazoans (2)	Lecture
Mon 8/27	Metazoans/Porifera (2,4)	Lecture
Wed 8/29	Porifera (4)	Lecture
Wed 9/5	Porifera/Placozoans (4)	Lecture/Video
Mon 9/10	Mesozoans/Cnidarians (5,6)	Lecture
Wed 9/12	Cnidarians (6)	Lecture
Mon 9/17	Cnidarians (6)	Lecture/Video
Wed 9/19	Cnidarians/Ctenophores (6,7)	Lecture
Mon 9/24	Platyhelminthes (8)	Lecture
Wed 9/26	Platyhelminthes (8)	Lecture
Mon 10/1	Exam 1	
Wed 10/3	Pseudocoelomates (10,11)	Lecture
Mon 10/8	Pseudocoelomates/Molluscs (10,11,12)	Video
Wed 10/10	Molluscs (12)	Lecture
Mon 10/15	Molluscs (12)	Lecture
Wed 10/17	Molluscs (12)	Lecture
Mon 10/22	Annelids (13)	Lecture
Wed 10/24	Annelids (13)	Lecture
Fri 10/26	Dauphin Island Field Trip (Friday-Sunday)	Field
Mon 10/29	Annelids (13)	Lecture
Wed 10/31	Exam 2	
Mon 11/5	Antarctic Marine Invertebrates	Lecture/Slides
Wed 11/7	Arthropods (14)	Lecture
Mon 11/12	Arthropods (14)	Lecture
Wed 11/14	Arthropods (14)	Guest Lecture
Mon 11/19	Arthropods/Echinoderms (14,20)	Lecture
Wed 11/26	Echinoderms (20)	Lecture
Wed 11/28	Echinoderms (20)	Lecture
Mon 12/3	Hemichordates/Urochordates (20,21,22)	Guest Lecture
Wed 12/5	Invertebrates in Applied Research	Lecture
TBA	Exam 3 (Final Exam)	

STUDENT RESPONSIBILITY ON FIELD TRIP TO DAUPHIN ISLAND SEA LABORATORY

It is to be recognized by individual students that there are certain safety responsibilities on field trips. Safety precautions and potential dangers will be explained by the instructor or in the case of a collecting cruise, the ship's mate. Beyond that, these responsibilities fall on each individual student.

Specifically, it is expected that students will take full responsibility for themselves and their passengers on the drive to and from the Dauphin Island Sea Laboratory in their personal automobiles. Students should take necessary precautions to avoid sunburn, insect bites, and poisonous plants while visiting Dauphin Island. Finally, students should abide by all the rules and regulations of the sea laboratory including the polite and respectful treatment of sea lab employees and observing the no alcohol policy on the sea lab premises.

Statement of Responsibility:

As a student I recognize that UAB university policies apply to my actions while visiting Dauphin Island Sea Laboratory. I acknowledge my responsibility on field trips as explained above and agree to accept these responsibilities.

Signed: _____

Date: _____