

INVERTEBRATE ZOOLOGY
Biology 311 Section 01

MWF 11:45-12:50AM
Pryor Sciences Bldg. 140

INSTRUCTOR: Dr. Joseph W. Goy
Office: Pryor Sciences Bldg. 150B
Office Hours: Schedule is posted
on office door.

TEXT: Invertebrates (2nd ed.) R.C. Brusca & G.J. Brusca, 2002, Sinauer Associates, Inc.
Publishers, Sunderland, MA 935pp.

TENTATIVE LECTURE SCHEDULE

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| <u>Week of Jan. 12:</u> | <u>Chapter</u> | |
| 1. Introduction | 1 | |
| 2. Classification, Systematics, and Phylogeny | 2 | |
| <u>Week of Jan. 19:</u> | <u>Chapter</u> | |
| 3. Animal Architecture and the Bauplan Concept | 3 | |
| <u>Week of Jan. 26:</u> | <u>Chapter</u> | |
| 4. Animal Development, Life Histories and Origins | 4 | |
| 5. The Protists - I | 5 | |
| <u>Week of Feb. 2:</u> | <u>Chapter</u> | |
| 6. The Protists - II | 5 | |
| 7. Phylum Porifera: The Sponges | | 6 |
| FEB. 6: EXAM #1 | | |
| <u>Week of Feb. 9:</u> | <u>Chapter</u> | |
| 8. Four Phyla of Uncertain Affinity | 7 | |
| 9. Phylum Cnidaria | 8 | |
| <u>Week of Feb. 16:</u> | <u>Chapter</u> | |
| 10. Phylum Ctenophora: The Comb Jellies | 9 | |
| 11. Phylum Platyhelminthes | 10 | |
| 12. Phylum Nemertea: The Ribbon Worms | 11 | |
| <u>Week of Feb. 23:</u> | <u>Chapter</u> | |
| 13. Blastocoelomates and Other Phyla | 12 | |
| 14. Phylum Annelida: The Segmented Worms | | 13 |
| <u>Week of Mar. 1</u> | <u>Chapter</u> | |
| 15. Sipuncula and Echiura | 14 | |

MAR. 5: EXAM #2

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| <u>Week of Mar. 8:</u> | <u>Chapter</u> | |
| 16. The Emergence of the Arthropoda | 15 | |
| <u>Week of Mar. 22:</u> | <u>Chapter</u> | |
| 17. Phylum Arthropoda: The Crustacea | 16 | |
| <u>Week of Mar. 29:</u> | <u>Chapter</u> | |
| 18. Phylum Arthropoda: The Hexapoda | | 17 |

Apr 2: EXAM #3

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| <u>Week of Apr. 5:</u> | <u>Chapter</u> |
| 19. Phylum Arthropoda: The Myriapods | 18 |
| 20. Phylum Arthropoda: The Cheliceriformes | 19 |

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| <u>Week of Apr. 12:</u> | <u>Chapter</u> |
| 21. Phylum Mollusca | 20 |

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| <u>Week of Apr. 19:</u> | <u>Chapter</u> |
| 22. Lophophorates | 21 |

APR. 23: EXAM #4

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| <u>Week of Apr. 26:</u> | <u>Chapter</u> |
| 23. Phylum Echinodermata | 22 |
| 24. Other Deuterostomes: Chaetognatha, Hemichordata, Chordata | 23 |

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| <u>Week of May 3:</u> | <u>Chapter</u> |
| 26. Perspectives on Invertebrate Phylogeny | 24 |

FINAL EXAM: Thursday – 13 MAY 2:40-5:10 PM

We will have 41 class days this semester. This means that we must cover a large amount of material each day. Consequently, it is imperative that you keep up with this fast pace in your study time outside of the classroom. You should try to spend a minimum of **12 hours** study each week in addition to class time in order to master the material. Exams will be designed to test your knowledge of both lecture material and assigned readings. For this reason, **continual class attendance** is highly recommended.

The FIVE lecture exams (including the final exam) are worth **100 points** each and will **ONLY** cover material up until that exam date. Scheduled exams will be given **ONLY** as scheduled. **No Make-Up Exams Will Be Given.** Should a student miss an exam for any reason, [**Legitimate University Excused Absence**] the point value from that exam will be added to the point value of the final exam. The laboratory is an integral

part of the course, therefore, **400 points** of the final grade will come from your laboratory assignments: lab weekly quiz average, two (2) lab practicals, workbook of lab dissections, and identification of unknown invertebrates (for details see separate lab handout). The final **100 points** of your grade will come from your choice of a **Research Paper** or a **Systematic Collection of Invertebrates** (see details outlined in separate handouts).

Method of Grade Assignment:

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| 5 Lecture Exams: 100 pts. each | 500 |
| 2 Lab Practical: 100 points each | 200 |
| Lab Quiz Average | 100 |
| Workbook | 50 |
| Unknowns Identification | 50 |
| Research Paper or Systematic Collection (your choice): 100 pts | <u>100</u> |
| | 1000 |

(Your Total Accumulated Points)

1000

X 100 = YOUR FINAL GRADE

GRADE SCALE

89.5 and above = A
79.5 - 89.4 = B
69.5 - 79.4 = C
59.5 - 69.4 = D
59.4 and below = F

There will be **no deviations** in the grade scale (i.e. No Curved Grades).

Students with Disabilities: It is the policy for Harding University to accommodate students with disabilities, pursuant to federal and state law. Therefore, any student with a **documented** disability condition (e.g. physical, learning, psychiatric, vision, hearing, etc.) who needs to arrange reasonable accommodations, must contact the instructor and Student Support Services at the beginning of the semester. The Student Support Services Office is located in Room 109 of the Lee Academic Center, telephone 279-4028.