

GRANDE PRAIRIE REGIONAL COLLEGE

SEP 06 2000

SCIENCE DEPARTMENT

**COURSE:** ZOOLOGY 2500 - THE INVERTEBRATES

**SECTION:** Fall           Lecture Section A2 (MW 1300-1420)  
                          Lab Section        L1 (F 1300-1550)

**TRANSFERABILITY:** U of A - Zoology 250 (3)  
                          U of C - Zoology 375(3)  
                          U of L - Zoology 3520 (3)

**INSTRUCTORS:** Mr. Terry R. Shewchuk  
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**DESCRIPTION:** Zoology 2500 is a comprehensive examination of the major invertebrate phylae. Each invertebrate group will be discussed with regard to taxonomic status, characteristics, adult body form, feeding, osmoregulation, excretion, movement, coordination, respiration, circulation, coelom, reproduction, encystment, fossil record, economic importance, habitat, and important life cycles.

**REQUIREMENTS:** A. Since presence at lectures and laboratories, participation in classroom discussion and projects, and the completion of assignments are important components of this course, students will serve their interests best by regular attendance. Those who choose not to attend must assume whatever risks are involved. In this connection, the attention of the students is directed to the Academic Guidelines of the College.  
B. MidTerm Exam  
C. One final Lecture Exam (Scheduled by the Registrar's Office during Fall Term Exam Week)  
D. Final Lab Exam  
E. Occasional Lecture and Lab Quizzes and Reports

ZOOLOGY 2500 - COURSE SYNOPSIS

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EVALUATION:

A. Lecture/Lab Quizzes	- 20%
B. MidTerm Exam	- 20%
C. Final Lab Exam/Project	- 20%
D. Final Lecture Exam	- 40%

RESOURCES:

Barnes, R. D. 1986. Invertebrate Zoology. Saunders.

Barnes, R. S. K., P. Calow, P. J. W. Olive, and D. W. Golding. 1993. The Invertebrates: A New Synthesis. 2<sup>nd</sup> ed. Blackwell.

Elson, L.M. 1982. The Zoology Coloring Book. Fitzhenry and Whiteside Limited.

Hickman, C.P., L. S. Roberts, and A. Larson. 1999. Animal Diversity. 2<sup>nd</sup> ed. McGraw Hill.

Kozloff, E. K. 1990. Invertebrates. Saunders.

Miller, S. A., J. P. Harley. 1994. Zoology. Volume III. The Animal Kingdom. 2<sup>nd</sup> ed. Wm. C. Brown Publishers.

Pechenik, J. A. 1996. Biology of the Invertebrates. 4<sup>th</sup> ed. McGraw Hill.

Pierce, S. K. and T. K. Mangel. 1987. Illustrated Invertebrate Anatomy. A Laboratory Guide. Oxford University Press.

Ruppert, E. E. and R. D. Barnes. 1994. Invertebrate Zoology. 6<sup>th</sup> ed. Saunders.

Wallace, R. L., W. K. Taylor, and J. R. Litton, Jr.. 1989. Beck and Braithwaite's Invertebrate Zoology. A Laboratory Manual. 4<sup>th</sup> ed. Macmillan.

**Zoology 2500**  
**The Invertebrates**  
**Fall - 1999**

<b>DATE/WEEK ENDING (*FRIDAYS)</b>	<b>TOPIC/LAB/QUIZ</b>
Sept. 10	Protozoa *Intro Lab
Sept. 17	Protozoa *Intro Lab
Sept. 24	Cnidaria *Field Lab
Oct. 1	Platyhelminthes *Protozoa Lab <b>Quiz I (Protozoa/Cnidaria)</b>
	<i>Recall YOUR Decision to Have a Quiz Every FRIDAY!</i>
Oct. 8	Platyhelminthes *Porifera/Cnidaria Lab
Oct. 15	Pseudocoelomates *Platyhelminth Lab
Oct. 22	Echinoderms *Pseudocoelomate Lab <b>Quiz II (Platyhelminths/Pseudocoelomates)</b>
Oct. 29	Echinoderms *Echinoderm Lab
Nov. 5	Molluscs *Mollusc Lab
Nov. 12	Molluscs *Annelid Lab <b>Quiz III (Molluscs/Echinoderms)</b>
Nov. 19	Annelids *Arthropod I Lab
Nov. 26	Arthropods *Arthropod II Lab
Dec. 3	Arthropods <b>*Lab Exam??</b>
Dec. 10	Arthropods <b>LAST QUIZ (Annelids/Arthropods)</b>