

GRANDE PRAIRIE REGIONAL COLLEGE  
SCIENCE DEPARTMENT

F.91

- COURSE: Zoology 220 - PRINCIPLES OF ANIMAL BIOLOGY
- INSTRUCTOR: Dr. Julie M. Dais  
Office - J 208  
Telephone - 539-2846
- DESCRIPTION: Zoology 220 is an introduction to the structure, function and phylogeny of animals. The first part of the course stresses life functions with emphasis on reproduction, integumental systems, locomotory structures, and aspects of physiology, especially of the vertebrates. The second part of the course deals with the evolutionary history of animals concentrating on the major adaptive and distinguishing features of selective phyla.
- REQUIREMENTS:
- A. Since presence at lectures and labs, 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 regard, the attention of the students is directed to the Academic Guidelines of the College.
  - B. Weekly combined lecture and lab quizzes (beginning the second week of labs)
  - C. Two laboratory reports
  - D. Two in-class lecture quizzes
  - E. One final combined lecture/lab examination
- EVALUATION:
- A. Combined lecture/lab quizzes (best 8 out of 9 quizzes) 25%
  - B. Laboratory reports (mini-lab: 4%, maxi-lab: 6%) 10%
  - C. Two in-class lecture quizzes 25%
  - D. Final combined lecture/lab exam 40%
- RESOURCES:
- Hickman, Roberts and Hickman. 1990. Biology of Animals. Times Mirror/Moseby College Publishing. Toronto.
- Zoology 120. 1990/1991. Principles of Animal Biology. Laboratory Manual. University of Alberta.

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ZOOLOGY 220: FALL 1991 SCHEDULE

LECTURE OUTLINE AND READING ASSIGNMENTS  
(order of subjects covered)

	HRH Chapter
1. Introduction.....	1-5
Structure and Function	
2. Animal Architecture.....	6
3. Circulation and Immunity.....	7
4. Respiration.....	7
5. Homeostasis.....	8
6. Digestion and Nutrition.....	9
7. First Lecture Quiz: October 4	
8. Nervous Systems.....	10
9. Sense Organs.....	10
10. Hormonal Controls.....	11
11. Reproduction and Development.....	13
Animal Diversity	
12. Animal Classification and Phylogeny.....	14
13. Protozoa.....	15
14. Porifera.....	16
15. Cnidaria.....	17
16. Platyhelminthes.....	18
17. Second Lecture Quiz: November 6	
18. Nematoda.....	19
19. Mollusca.....	20
20. Annelida.....	21
21. Arthropoda.....	22
22. Echinodermata.....	24
23. Chordata: with emphasis on Vertebrata.....	25-30
Final lecture/lab exam: scheduled by the Registrar	

LABORATORY OUTLINE

1. Survey of Animal Kingdom and Protozoans  
    Animal Architecture
2. Frog/Human Heart Lab (mini-lab report: 4%)
3. "CompuLab"
4. Metabolism (maxi lab report: 6%)
5. Protozoans
6. Invertebrates I
7. Invertebrates II
8. Invertebrates III
9. Chordates I
10. Chordates II