

## **GENERAL ZOOLOGY - BIOL 170 Fall 2014**

### **COURSE SYLLABUS**

**COURSE DESCRIPTION:** A survey of the Protist and Animal kingdoms and an introduction to animal evolution, behavior, and ecology. This course consists of three one-hour lecture and one two-hour lab each week.

**INSTRUCTOR:** Kenneth Cabarle

**OFFICE:** NSC 113

**OFFICE HOURS:** M, T, W 10:00-10:50, W, 2:00-2:50; by appointment

**PHONE:** 701-228-5463

**E-MAIL:** kenneth.cabarle@dakotacollege.edu

**LECTURE:** 11:00 to 11:50 am MWF in NSC 103

**LAB:** 10:00-11:50 am on Thursday in NSC 128

**TEXT:** Integrated Principles of Zoology, Hickman, Roberts, and Larson, 15th Edition

**GRADING:** Grading is based on a standard college curve, where students earn a grade based upon the percent of total possible points they obtain. The lecture component of this course consists of 600 points (12 drop quizzes worth 5 points each, assignments worth 100 points, 3 lecture exams worth 100 points each, and one final exam worth 150 points). Drop quizzes and assignments may not be made up, but students will be able to drop the lowest two scores of the twelve drop quizzes given during the semester. There is a one week grace period to make up any missed exam. Any missed exam not made up within the allotted time will be given a zero. Make-up exams may be of an essay nature and are usually considered more difficult. (Note: It is the responsibility of the student to schedule make-up work with the instructor at a time convenient to both parties.) Final letter grades are assigned based on the following criteria:

- A = 90-100% of the total points
- B = 80-90% of the total points
- C = 70-80% of the total points
- D = 60-70% of the total points
- F = <60% of the total points

## **GENERAL ZOOLOGY - BIOL 170**

### **GOAL:**

The goal of this course is to facilitate learning about the animal kingdom so that students better understand and appreciate the inter-relationships between animals and their environment in order to promote the advancement of life sciences in society and to prepare students for a career in life sciences.

### **OBJECTIVES:**

- 1) To learn and retain information essential to a broad knowledge of zoology.
- 2) To understand and utilize scientific methods of inquiry.
- 3) To understand current scientific views of natural phenomenon.

- 4) To practice sound, safe, and sensible laboratory techniques.
- 5) To appreciate the historic development of science.
- 6) To approach and solve problems by utilizing logical thought processes.
- 7) To apply scientific information and principles to everyday life.
- 8) Collect and organize data in a systematic manner.
- 9) To analyze and interpret data in accordance with scientific principles to make informed decisions and ethical choices.
- 10) To recognize the relationship between science and technology.

### **Student E-mail Policy:**

Dakota College is increasingly dependent upon e-mail as an official form of communication. A student's campus assigned e-mail address will be the only one recognized by the campus for official mailings. The liability for missing or not acting upon important information conveyed via campus e-mail rests with the student.

### **Classroom Policies:**

All students will respect the classroom environment which will allow for maximum interaction between students and the professor.

**Lab policies:** Labs in this class are a privilege. Violation of school procedures regarding student conduct will not be tolerated. Many of the labs are all day field trips and you will be exempt from other classes. However, this does not exempt you from the work that is missed for those classes. All missed work from classes missed because of lab will be made up per arrangements with the other instructors. Students that violate this will miss out on future field trips. Labs are repeated around the same time each year.

### **Academic Integrity:**

All students will do their own, original work on reports, laboratory assignments, and essays. Any student caught cheating on an exam or quiz will be reprimanded the first time. If it happens again, the student will drop the class.

**Disabilities and Special Needs:** Please inform the professor within the first week of classes if any assistance is required due to disabilities or special needs.

## TENTATIVE COURSE OUTLINE

<u>DATE</u>	<u>TOPIC</u>	<u>READING</u>
8-27	Introduction	Chpt. 1
8-29	Introduction	Chpt. 1
<b>9-1</b>	<b>NO CLASS - LABOR DAY</b>	
9-3	Evolution	Chpt. 1
9-5	Evolution	Chpt. 1
9-8	Chromosomal Theory	Chpt. 1
9-10	General Chemistry	Chpt. 2
9-12	Organic Chemistry	Chpt. 2
9-15	Origin of Life & Cells	Chpt. 3

9-17	Cells	Chpt. 3
9-19	Cell Metabolism	Chpt. 4 (5)
9-22	Cell Metabolism	Chpt. 4 (5)
<b>9-24</b>	<b>EXAM I</b>	
9-26	Genetics	Chpt. 5 (8)
9-29	Genetics	Chpt. 5 (8)
10-1	Organic Evolution	Chpt. 6 (9)
10-3	Organic Evolution	Chpt. 6 (9)
10-6	Reproductive Processes	Chpt. 7 (6)
10-8	NO CLASS - ASSESSMENT DAY	
10-10	Development	Chpt. 8 (7)
10-13	Development	Chpt. 8 (7)
10-15	Ecology	Chpt. 39
10-17	Ecology	Chpt. 40
10-20	Architectural Patterns	Chpt. 9 (10)
<b>10-22</b>	<b>EXAM II</b>	
10-24	Classification	Chpt. 10 (11)
10-27	Protista	Chpt. 11 (12)
10-29	Porifera/Cnidaria	Chpt. 12 & 13 (13 & 14)
10-31	Acoelomates	Chpt. 14 (15)
11-3	Pseudocoelomates	Chpt. 15 (16)
11-5	Mollusca	Chpt. 16 (17)
11-7	Annelida	Chpt. 17 (18)
11-10	Annelida	Chpt. 17 (18)
<b>11-11</b>	<b>NO CLASS - VETERANS DAY</b>	
11-12	Arthropoda	Chpt. 18 (19)
11-14	Arthropoda	Chpt. 19 (20,21)
11-17	Echinodermata	Chpt. 23 (24)
11-19	Chordates	Chpt. 25 (26)
<b>11-21</b>	<b>EXAM III</b>	
11-25	Fish	Chpt. 26 (27)
<b>11-27/28</b>	<b>NO CLASS - THANKSGIVING</b>	
12-1	Fish	Chpt. 26 (27)
12-3	Amphibians	Chpt. 27 (28)
12-5	Reptiles	Chpt. 28 (29)
12-8	Reptiles	Chpt. 28 (29)
12-10	Birds	Chpt. 29 (30)
12-12	Mammals	Chpt. 30 (31)
12-12	Review for Exam	
<b>12-15-19</b>	<b>Final Exams</b>	