

Peru State College
BIOLOGY 102 INTRODUCTORY ZOOLOGY
Syllabus – Spring – 2010

Instructor: Dr. Michael Barger
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Course Meets: 1100-1215 MW, Hoyt 104; Lab: M (2-345) OR W (2-345).

Required Textbook: Integrated Principles of Zoology

Required Software: None

Course Description & Objectives

This course examines the foundation principles of biology with special emphasis on anatomy, morphology, life cycles, reproduction, evolution, and diversity of animals and related organisms. Both lecture and laboratory are required for this course.

Prerequisites: None

Upon completion of this course you should be able taxonomically differentiate the 12 major phyla of extant animals/protists and the subgroups within each phylum, understand the major evolutionary events in the radiation of animal life, define for each animal group the diagnostic and ecologically important structures and their functions, compare and contrast complex life cycles, and integrate laboratory exercises with lecture material.

At the beginning of the course, we will discuss how these objectives fit into the College's and School's mission and goals.

Expectations & Instructional Approach

Classes will include:

Weekly Plan: Each week, course time will be used for lecture and discussion of the above topics. You might find it helpful to have read the relevant material out of your textbook prior to lecture on that topic. Laboratory involves examination of representatives of the groups we are covering in lecture.

Use of the Textbook: Zoology textbooks are relatively good encyclopedias and dictionaries about animals. I recommend that you utilize your textbook in 2 different ways: 1) as a different viewpoint/presentation style of material covered in lecture; and, 2) as an encyclopedia and dictionary. Test material will not come directly from the text unless we have discussed it in lecture; coverage of material in the text is not necessarily indicative of the material that will be on the exams. You cannot pass this course by

relying entirely on the textbook. The textbook is also a source of pictures and drawings for use in lab. You must bring your textbook to lab each week.

Reading Assignments: Four sets of readings are assigned throughout the semester (see above for deadlines). These are essays on science, scientists, and biology selected from a variety of authors of popular or semi-technical works in science. They are intended to develop in you a broader understanding of the activities of scientists, how scientists think, and how science interacts with society in general. Each reading assignment will include a written component, the latter of which will be discussed fully in class. The reading assignments themselves will be available in the library, on reserve. You may read them and complete the assignments there, or you may photocopy the assigned readings to take with you. None of the assignments requires more than about 50 pages of reading; most are substantially less than that. The assigned readings are as follows:

1st Reading Assignment

Chapters 1-3, and 14. *To Know a Fly*. Vincent Dethier.

2nd Reading Assignment

Chapters 2-4 in *The Malaria Capers* (Part I: *Kala Azar: The Long Anguish of the Black Sickness*) Robert Desowitz.

The Fly that would be King. Chapter 6. *New Guinea Tapeworms and Jewish Grandmothers*. Robert Desowitz.

3rd Reading Assignment

The Snail King & Pioneers. Chapters 2 & 3. *Keith County Journal*. John Janovy, Jr.

4th Reading Assignment

The Judgment of the Birds. Chapter 11. *The Immense Journey*. Loren Eiseley.

The Spectral War. Chapter 19. *All the Strange Hours*. Loren Eiseley.

Assessment and Grading

Exams: Exams will be based on lectures and any assigned readings from the textbook. We will discuss their format as the first exam approaches. I give no make-up tests. A missed test is graded as zero if unexcused and is prorated if excused. A missed test is excused if and only if I have given written consent PRIOR to the test. The above applies equally to persons involved in conflicting college-sanctioned events; athletes and others are personally responsible for informing me of any conflicts with tests and laboratories as soon as those conflicts are known. I will assume no official PSC sanctioned conflicts with the test schedule below after the second week of lecture.

Laboratory quizzes: There will be 2 quizzes prior to the midterm laboratory practical and 2 quizzes after the midterm laboratory practical. Quizzes will cover material from the previous weeks' laboratory exercises. They may be multiple choice, matching, practical,

or short answer. Quizzes will be held at the beginning of lab and last ~10 mins. Tardiness affords no extra time; missed quizzes will be graded as zeros.

Laboratory practical: There will be 1 laboratory practical, during Dead Week. The practical will consist of 20-24 stations, each with a specimen that we have examined in laboratory during the semester. Each station will ask 1-2 questions about that specimen, and students will have 2 minutes at each station to answer questions. We will discuss the format of the practical as it approaches. Students will take the practical during their normal laboratory time.

Your final grade will be based on three exams (3@100pts each); Reading assignments (4@25pts); Laboratory quizzes (6@10 pts each; lowest score dropped 50pts total); Practical exam (50pts). Total of 500 pts: A (90-100%), B+ (85-89%), B (80-84%), C+ (75-79%), C (70-74%), D+ (65-69%), D (60-64%), F (<60%). I reserve the right to modify the final grade distribution.

College's Incomplete Coursework Policy

To designate a student's work in a course as incomplete at the end of a term, the instructor records the incomplete grade (I). Students may receive this grade only when serious illness, hardship, death in the immediate family, or military service during the semester in which they are registered prevents them from completing course requirements. In addition, to receive an incomplete, a student must have completed substantially all of the course's major requirements.

Unless extenuating circumstances dictate otherwise, students must initiate requests for an incomplete by filling out an Incomplete Grade Completion Contract, which requires the signature of the student, instructor, and Dean. The Incomplete Grade Completion contract cites the reason(s) for the incomplete and details the specific obligations the student must meet to change the incomplete to a letter grade. The date by which the student agrees to complete required work must appear in the contract. The Dean, the instructor, and the student receive signed copies of the Incomplete Grade Completion Contract.

Even if the student does not attend Peru State College, all incomplete course work must be finished by the end of the subsequent semester. Unless the appropriate Dean approves an extension and if the student does not fulfill contract obligations in the allotted time, the incomplete grade automatically becomes an F.

College's Academic Integrity Policy

The College expects all students to conduct themselves in a manner that supports an honest assessment of student learning outcomes and the assignment of grades that appropriately reflect student performance. It is ultimately the student's responsibility to understand and comply with instructions regarding the completion of assignments, exams, and other

academic activities. At a minimum, students should assume that at each assessment opportunity they are expected to do their own original academic work and/or clearly acknowledge in an appropriate fashion the intellectual work of others, when such contributions are allowed. Students helping others to circumvent honest assessments of learning outcomes, or who fail to report instances of academic dishonesty, are also subject to the sanctions defined in this policy.

Instances of academic dishonesty may be discovered in a variety of ways. Faculty members who assign written work ordinarily check citations for accuracy, run data base and online checks, and/or may simply recognize familiar passages that are not cited. They may observe students in the act of cheating or may become aware of instances of cheating from the statements of others. All persons who observe or otherwise know about instances of cheating are expected to report such instances to the proper instructor or Dean.

In order to promote academic integrity, the College subscribes to an electronic service to review papers for the appropriate citations and originality. Key elements of submitted papers are stored electronically in a limited access database and thus become a permanent part of the material to which future submissions are compared. Submission of an application and continued enrollment signifies your permission for this use of your written work.

NSCS Board of Trustees Policy 4220 states that each College “. . . will establish a distance learning assessment policy that will include, at a minimum, a substantial culminating experience that is proctored.” Peru State College’s policy is that each course that is offered entirely online will feature a proctored final exam that substantially measures the extent the course’s stated learning objectives are achieved. Online course syllabi will clearly state that, regardless of grades earned previously, the proctored final exam must be passed in order to receive credit for the course. Courses which feature graded site-based activities (e.g., teaching demonstrations) and/or video-taped presentations that occur near the end of the term, and that are designed to substantially assess the achievement of learning objectives, can be considered in compliance with this policy. Project-based capstone and graduate courses utilizing real-time discussions held by web-cam, phone or in person with the faculty member as part of the assessment process can also be considered in compliance with this policy.

Should an occurrence of academic misconduct occur, the faculty member may assign a failing grade for the assignment or a failing grade for the course. Each incident of academic misconduct should be reported to the Dean and the Vice President for Academic Affairs (VPAA). The VPAA may suspend students for two semesters found to be responsible for multiple instances of academic dishonesty. The reason for the suspension will be noted on the student’s

transcript.

A faculty member need present only basic evidence of academic dishonesty. There is no requirement for proof of intent. Students are responsible for understanding these tenets of academic honesty and integrity. Students may appeal penalties for academic dishonesty using the process established for grades appeals.

Title IX Compliance Notice

Peru State College is an equal opportunity institution. PSC does not discriminate against any student, employee or applicant on the basis of race, color, national origin, sex, disability, religion, or age in employment and education opportunities, including but not limited to admission decisions. The College has designated an individual to coordinate the College’s nondiscrimination efforts to comply with regulations implementing Title VI, VII, IX, and Section 504. Inquiries regarding non-discrimination policies and practices may be directed to Eulanda Cade, Director of Human Resources, Title VI, VII, IX Compliance Coordinator, Peru State College, PO Box 10, Peru, NE 68421-0010, (402) 872-2230.

Students requesting reasonable accommodation and tutoring services should contact the Center for Achievement and Transition Services (CATS).

Tentative Course Schedule

Week of:	Lecture	Chs.	Laboratory
Jan. 11	Zoology; Animal Architecture	9	NO LAB
Jan. 18	Taxonomy	10	Microscopes.
Jan. 25	Protista	11	Protista; Quiz.
Feb. 1	Porifera; Assign. #1 (3rd)	12	Porifera.
Feb. 8	Cnidaria.	13	Cnidaria; Quiz.
Feb. 15	TEST I (17th) ; Platyhelminthes;	14	Platyhelminthes.
Feb. 22	Platyhelminthes	14	Nematoda; Quiz.
Mar. 1	Nematoda; Annelida; Assign. #2 (3rd)	18, 17	Annelida.
Mar. 8	MIDTERM BREAK		NO LAB
Mar. 15	Annelida; Molluska.	17, 16	Arthropoda I; Quiz.
Mar. 22	TEST II (24th) ; Arthropoda	19-21	Arthropoda II.
Mar. 29	Arthropoda; Assign. #3 (31st)	19-21	Echinodermata; Quiz.
Apr. 5	NO CLASS (Mon; SB) Arthropoda.	19-21	NO LAB.
Apr. 12	Echinodermata.	22	Chordata; Quiz.
Apr. 19	Chordata; Assign. #4 (21st)	23	Review.
Apr. 26	Chordata; Dead Week.	23-28	Practical Exam.
May 3	FINAL EXAM (1030-1230, Thursday, 6th)	-----	-----