

Biology 1413 (Zoology) - A1 (MW) & A3 (TTh)
Blinn College - Bryan Campus
Course Information Sheet
Fall 2009

Instructor: Mr. Brian Hanks

email: bhanks@blinn.edu

Office: S236

Office Hours: MW 1:15 PM to 3:30 PM

Tel: (979) 209-7423

and other times by appointment.

A1 (MW) 10:35-11:50 AM Lecture in H207 & 12:00- 1:15 PM Lab in S218

A3 (TTh) 9:10-10:25 AM Lecture in S216 & 10:35-11:50 AM Lab in S215

Course Description:

A study of the basic principles of animal life and the structure and development of representative members of the animal kingdom from the protozoans through the vertebrates.

Core Curriculum Course:

This is a course in the 42-hour Core Curriculum of Blinn College. As such, students will develop proficiency in appropriate intellectual competencies, exemplary educational objectives and general perspectives. The URL of the Blinn College core curriculum web site is:

www.blinncol.edu/corecurriculum.htm <<http://www.blinncol.edu/corecurriculum.htm>>

Course Objectives and Student Learning Outcomes:

After successfully completing Biology 1413, the student should be able to:

- Differentiate between science and other fields of knowledge and learning.
- Explain the role of evolution in the history of animal life on Earth.
- Describe the mechanisms of evolutionary change.
- Describe the classification of living animals.
- Identify and characterize the major taxonomic categories.
- Describe the structure and life processes of animals.
- Describe the interactions of animals with their environment
- Demonstrate familiarity with the fundamentals of laboratory safety.
- Display an understanding of problem solving in science.
- Use laboratory equipment in a correct manner.
- Relate biological concepts to laboratory activities.

The following skills will be demonstrated:

- Operation of compound and dissecting microscopes
- Preparing microscope slides of fresh specimens (wet mount)
- Dissection of specimens for study
- Practice of safe laboratory procedures

Textbooks and other materials:

Required Textbook: *Animal Diversity*, 5th ed., Hickman, et al., 2009, McGraw-Hill, New York. ISBN - 13 978-0-07-252844-2 or ISBN-10 0-07-25844-3

Required Laboratory Manual: Hickman, C. P., Hickman, F. M., and L. B. Kats. 2006. *Laboratory Studies in Integrated Zoology*, 14th Ed.

ISBN 978-0-07-297005

Description of Course Content and Class Schedule:

The tentative order of coverage of lecture topics is shown below: (Note that the test dates shown below will not be changed)

<u>LECTURE WEEK</u>	<u>TOPICS</u>	<u>ASSIGNED TEXT CHAPT.</u>
31 Aug	Introduction	1
	Animal Diversity/Evolution	1
7 Sept	Animal Diversity/Evolution	1
	Animal Ecology	2
14 Sept	Animal Ecology	2
	Classification & Phylogeny	4
21 Sept	Classification & Phylogeny	4
	Protozoans	5
28 Sept	Protozoans	5
****	LECTURE EXAM I **** (30 Sept or Oct 1)	
5 Oct	Porifera	6
	Radiate Animals	7
12 Oct	** LAB PRACTICAL EXAM #1** (14 or 15 Oct)	
	Acoelomates	8
	Acoelomates	8
19 Oct	Pseudocoelomates	9
	Pseudocoelomates	9
26 Oct	Mollusca/Annelida	10, 11
****	LECTURE EXAM II **** (28 or 29 Oct)	
2 Nov	Arthropoda	12
	Arthropoda	12
9 Nov	Lesser Protostomes, Echinodermata, & Hemichordates	13, 14
16 Nov	Chordates & Fishes	15, 16
23 Nov	**** LECTURE EXAM III **** (23 or 24 Nov)	
	THANKSGIVING BREAK	
30 Nov	Amphibians	17
	Reptiles, Birds	18, 19
	** LAB PRACTICAL EXAM #2 ** (2 or 3 Dec)	
7 Dec	Mammals	20
	Review	

**** FINAL EXAMINATION ****

section **A1** on Monday **14 Dec @ 10:15-12:15** pm in H207 (Lecture Room)

section **A3** on Tuesday **15 Dec @ 10:15-12:15** pm in S215 (Laboratory)

Dates for Quizzes, Worksheets, Laboratory Topics, and the Writing Assignment will be announced in class and lab throughout the semester.

Course Requirements:

There will be three lecture exams, two laboratory practical exams, four counted quizzes, and one final exam. In addition to these 10 tests, there will be at least 10 worksheet assignments and one writing assignment.

ADA Statement:

Students with physical or learning disabilities must present documentation from the Office of Disability Services (room 165, Science Bldg) to receive accommodation on exams and assignments. Accommodation is not retroactive.

Class Policies:

Student E-mails: Students are assigned an E-mail address that must be checked regularly for official Blinn communications and course information. The address is of the form:

Firstname.LastnameLast2digitsBlinnID@buc.blinn.edu . Information about accessing this account can be found at: www.blinn.edu/acadtech/studentemail/

Civility Statement: Members of the Blinn College community, which includes faculty, staff and students, are expected to act honestly and responsibly in all aspects of campus life. Blinn College holds all members accountable for their actions and words. Therefore, all members should commit themselves to behave in a manner that recognizes personal respect and demonstrates concern for the personal dignity, rights, and freedoms of every member of the College community, including respect for College property and the physical and intellectual property of others. If a student is asked to leave the classroom because of uncivil behavior, the student may not return to that class until he or she arranges a conference with the instructor: It is the student's responsibility to arrange for this conference.

Attendance: The College District believes that class attendance is essential for student success; therefore, students are required to promptly and regularly attend all their classes. Each class meeting builds the foundation for subsequent class meetings. Without full participation and regular class attendance, students shall find themselves at a severe disadvantage for achieving success in college. Class participation shall constitute at least ten percent of the final course grade. It is the responsibility of each faculty member, in consultation with the division chair, to determine how participation is achieved in his or her class. Faculty will require students to regularly attend class and will keep a record of attendance from the first day of class and/or the first day the student's name appears on the roster through final examinations. If a student has one week's worth of absences during the semester, he/she will be sent an e-mail by the College requiring the student to contact his/her instructor and schedule a conference immediately to discuss his/her attendance issues. If the student subsequently accumulates two weeks worth of absences (**= 4 class and/or lab meetings for Biology 1413**), he/she **MAY** be administratively withdrawn from class.

Absence Policy: There are three forms of excused absence officially designated by Blinn College:

(1) Observance of religious holy days: The student should notify his/her instructor(s) not later than the 15th day of the semester concerning the specific date(s) that the student will be absent for any religious holy day(s); and (2) Representing Blinn College at an official institutional function and (3) official involvement in a high school activity for "dual credit" students. Other excuses will be considered and may be considered excusable at the instructor's discretion, with documentation.

Missing lecture or lab or both will count as one absence. If a student chooses to drop the course, it is that student's responsibility to complete a drop order at the Office of Enrollment Services. Failure to do so could result in a grade of F in the course. The last day to withdraw with a "W" is Friday, November 20, 2009.

Eating, drinking, and Cell Phone use are not allowed in classrooms or laboratories.

Cell Phones are to be **turned off (powered down)** in classrooms or laboratories.

Each failure to comply with laboratory safety procedures results in a zero for any of that day's lab activities (worksheets, quizzes, practicals).

Blinn College does not tolerate cheating, plagiarism or other acts of dishonesty. Definitions of these acts and procedures for dealing with them are described in "Scholastic Dishonesty" in the Blinn College Student Handbook, copies of which are available at the information desk in the administration building.

During testing, your access to any information of any kind (other than that given by me to you on your exam or answer sheet) is strictly prohibited. It is your responsibility before you take a test to see to it that all notes, handouts, practice exams, and books are placed out of your sight. The only materials allowed on your desk during tests are: the exam that you are taking, pencils/pens, and an answer sheet or scantron.

Failure to comply with this testing policy or with the Scholastic Dishonesty policy during a test will result in a grade of zero on that test, and cannot be dropped. A final course grade of "F" may also be imposed.

Lecture Exams: Each of three lecture exams will consist of predominantly multiple-choice questions. Approximately 70 to 90 multiple-choice questions plus several short-answer essays will be included on each exam. You will be tested on both lecture and reading assignments. You will need a #2 pencil and a blank scantron form (#882) for each exam. If you miss a lecture exam, you may request an essay format make-up exam provided that you submit a written request to me no later than the first day of your return to class. Permission will be granted only for cases in which the absence has been excused. Make-up exams will not be curved.

Final Exam: The final exam is comprehensive and will consist of approximately 100 multiple-choice questions. 50-60% Old material, 40-50% New material.

Quizzes: Of the five quizzes to be given during the semester, the highest four scores that you have earned will be used in the calculation of your final grade. Quizzes cover material from both lecture and laboratory. Expect questions in the form of practicals, fill-in-the-blank, short essay, and problem solving. There will be no makeup quizzes

One writing assignment is required. More information about this assignment will be provided later in the semester.

Laboratory Practical Exams: Each of the two lab practical exams will consist of 40 fill-in-the-blank questions about specimens that you will observe during these exams. Completion of your worksheets and your studies in the laboratory are activities that will form an important part of your preparation for these lab practicals. There will be no make-up lab practical exams.

Extra Credit points: By correctly answering additional bonus questions on each lecture exam, lab practical, quiz, and on the final exam, you may earn bonus points

Worksheets: Various types of assignments from lecture and lab will herein be considered as worksheets. These could include for example, a written text or lab book chapter summary, evidence that your laboratory work has been completed, a requested drawing or sketch, a synopsis of a current event concerning some aspect of zoology, etc. Each worksheet will be graded on a pass/fail basis. You are encouraged to collaborate on worksheet assignments. Each worksheet is due during the class period in which it is assigned, unless I inform you otherwise. You are expected to work for the duration of the lab period in order to receive credit for worksheets involving laboratory assignments.

Criteria for Grading:

3 lecture exams (120 points each)	360 points
1 final exam (200 points)	200 points
4 highest quizzes (40 points each)	160 points
1 writing assignment (20 points)	20 points
2 laboratory practical exams (80 points each)	160 points
10 or more worksheets (10 or less points each)	100 points

Total points	1000 points*
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*Because you have the opportunity to earn extra credit points on each lecture exam, quiz, lab practical, and on the final exam; and because lecture exams and lab practicals may be curved to the instructor's expectations, it is possible to earn more than 1000 points.

Your final course (%) average = (your total points earned/1000) X 100

Final course grades are calculated as:

A: 895 or more points, B: 795 to 894 points, C: 695 to 794 points,

D: 595 to 694 points, F: 594 or less points.