

# Animal Biology – ZOOL 1604 \*\* SYLLABUS\*\*

## Spring 2010

**Instructor:** Dr. Matthew G. Bolek, 415 Life Sciences West, 744-9675  
E-mail: bolekm@okstate.edu  
Office hours: MW 1:30-2:30, or by appointment  
Mailbox: 501 Life Sciences West

**Lecture:** 317 Engineering South, MWF, 12:30-1:20

<b>Laboratory:</b> LSW 313	Section 001	T 9:30 – 11:20	Section 007	W 3:30 – 5:20
	Section 002	T 11:30 – 1:20	Section 008	W 6:30 – 8:20
	Section 003	T 1:30 – 3:20	Section 009	Th 8:30 – 10:20
	Section 004	T 3:30 – 5:20	Section 010	Th 10:30 – 12:20
	Section 005	W 9:30 – 11:20	Section 011	Th 12:30 – 2:20
	Section 006	W 1:30 – 3:20	Section 012	Th 2:30 – 4:20

**Laboratory instructor:** To be announced during first lab.

**\*\*Questions concerning the laboratory should be directed to your TA.\*\***

### Texts:

Hickman, Roberts, Keen, Larson, and Eisenhour. 2009. Animal Diversity. Fifth Edition. McGraw Hill.

Hickman and Kats. 2009. Laboratory Studies in Animal Diversity. Fifth Edition. McGraw Hill.

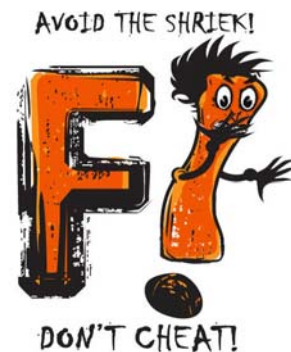
**Course Description:** The main objective of this course is to understand the basic structure, ecology and evolution, life history and diversity of animal groups.

**Prerequisites:** Introductory Biology (BIOL 1114)

**Attendance:** You are expected to attend all classes and labs. **There are no make-up labs.**

**Lecture Outlines:** Available on the course website. Lecture outlines represent an outline of material which will be discussed during lecture. If you do not take additional notes or if you only study the lecture outlines, it will be very difficult to do well in this course.

**Academic Integrity Policy:** Oklahoma State University is committed to maintaining the highest standards of integrity and ethics. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, fraudulently altering academic records, and similar behaviors) will



result in a sanction. Sanctions include: receiving a failing grade on an assignment, examination or in the course, receiving a notation of a violation of academic integrity (F!) on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627, <http://academicintegrity.okstate.edu/>. Familiarize yourself with the new OSU policy on Academic Integrity (available online at: <http://academicintegrity.okstate.edu/doc/aistudenthandout.pdf>).

**Special accommodations:** If you have a disability and need special accommodations, the instructor will work with you and the Office of Student Disability Services, 315 Student Union, to provide reasonable accommodations to ensure that you have a fair opportunity to perform in this class. Please advise the instructor of such disability and the desired accommodations at some point before, during, or immediately after the first scheduled class. You must have an official letter from Student Disability Services indicating what constitutes appropriate accommodations.

### Grading:

#### Lecture

Midterm exams	4 (120 pts each); <b>3 best scores counted</b>	360 pts
D2L quizzes	7 (20 pts each); <b>5 best scores counted</b>	100
Final exam		240
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Lecture subtotal		700 (70%)

#### Laboratory

Weekly activities: 11, 5 pts each		55 pts
Lab Exam 1		45
Lab Exam 2		70
Lab Exam 3		70
Hay Infusion Report		25
Participation and “pop” quizzes		35
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Lab subtotal		300 (30% of total)

### **Total**

**1000 pts**

**Final Grade:** 90-100%=A, 80-89%=B, 70-79%=C, 60-69%=D, below 60%=F.

**Exams:** There will be four midterm exams and one comprehensive final. Each exam will cover material from lectures, assigned readings and labs, with an emphasis placed on material presented in lecture. Midterm exams will emphasize material presented since the last exam and you will have 50 minutes to complete each midterm exam. One-half of the final will cover material presented after the fourth midterm exam, and the other half will be comprehensive for the entire course. You will need to bring a general purpose NCS answer sheet, # 2 pencils, and your student ID to all exams. Student IDs will be checked when you turn in your exam.

**There will be no makeup exams.** If you miss one of the four midterm exams, it will count as your dropped score, thereby not penalizing you. If you miss a second midterm exam and fail to notify your instructor **within twenty-four hours** you will be given a zero on that exam. If you know that you are going to miss an exam due to an official university-sponsored activity or military training you may be able to take an early exam. Early exams may be in a different format than the in-class exam (see your instructor for details).

**Conflicts with other university activities** must be resolved **at least one week prior** to the conflict.

**D2L Quizzes:** This assignment consists of out-of-class quizzes on the course website. There will be 7 D2L quizzes throughout the semester and each quiz will cover material previously covered during lecture. Each D2L quiz will be worth 20 points and your two lowest D2L quiz scores will be dropped. D2L quizzes will be available on the D2L site by 5 pm the class period before the quiz is due and you will have approximately 3 days to complete each quiz. Quizzes are due by 5 pm on the dates marked on your syllabus. Quizzes can not be submitted past the deadline and will not be accepted late, so do not wait until the last minute to complete your quiz. The D2L quizzes will be open book and open note, **BUT YOU MUST WORK ALONE.** These quizzes will help you monitor your progress in learning the class material and will help your instructor evaluate how well students understand material presented in lecture. In most cases you will receive immediate feedback on the D2L site about your performance on each quiz. **There will be NO make-ups for D2L quizzes.**

**Corrections on exams and assignments** must be requested **within ONE week** of the day the exam or assignment was returned in class.

**\*\*Please see the OSU syllabus attachment on the course website for this course for frequently asked questions related to courses at OSU. \*\***

#### **Course Website**

**<https://oc.okstate.edu/>**

**log on using your OKEY username (not your email address) and password**

I will also post information including lectures about the class on my own personal website

[www.matthewbolek.com](http://www.matthewbolek.com). Go under Teaching and Animal Biology.

LECTURE SCHEDULE - ZOOL 1604 **\*\*Subject to Change\*\***

Date		Day	Topic	Reading Assignment
Jan	11	M	Introduction/What is an animal?	
Jan	13	W	Science of Zoology and Evolution	Chapter 1 (pp. 1-34)
Jan	15	F	Evolution (cont.) and Animal Ecology	Chapter 2 (pp. 35-54)
Jan	18	M	<b>No class – University Holiday</b>	
Jan	20	W	Animal Ecology (cont.) and Animal Bauplan	Chapter 3 (pp. 55-71)
Jan	22	F	Animal Classification and Phylogeny ( <b>Quiz 1</b> )	Chapter 4 (pp. 72-88)
Jan	25	M	Protozoan Groups I	Chapter 5 (pp. 89-111)
Jan	27	W	Protozoan Groups II	Chapter 5 (pp. 89-111)
Jan	29	F	Sponges I	Chapter 6 (pp. 112-122)
Feb	1	M	Sponges II and Placozoa ( <b>Quiz 2</b> )	Chapter 6 (pp. 112-122)
<b>Feb</b>	<b>3</b>	<b>W</b>	<b>Exam 1</b>	Covers Intro-Protozoa II
Feb	5	F	Radiate Animals I Intro to Cnidarians	Chapter 7 (pp. 123-146)
Feb	8	M	Radiate Animals II Cnidarian diversity	Chapter 7 (pp. 123-146)
Feb	10	W	Radiate Animals III Cnidarian diversity and Ctenophores	Chapter 7 (pp. 123-146)
Feb	12	F	Acoelomate Bilateral Animals; Intro and Flatworms	Chapter 8 (pp. 147-163)
Feb	15	M	Flatworms II, Nemertean and Mesozoans ( <b>Quiz 3</b> )	Chapter 8 (pp. 147-163)
Feb	17	W	Gnathiferans and Smaller Lophotrochozoans I	Chapter 9 (pp. 164-177)
Feb	19	F	Smaller Lophotrochozoans II	Chapter 9 (pp. 164-177)
Feb	22	M	Molluscs I	Chapter 10 (pp. 178-203)
Feb	24	W	Mollusca II	Chapter 10 (pp. 178-203)
<b>Feb</b>	<b>26</b>	<b>F</b>	<b>Exam 2</b>	Sponges I-Smaller Lophotrochozoans II
Mar	1	M	Mollusca III	Chapter 10 (pp. 178-203)
Mar	3	W	Annelids and Allied Taxa I	Chapter 11 (pp. 204-221)
Mar	5	F	Annelids and Allied Taxa II ( <b>Quiz 4</b> )	Chapter 11 (pp. 204-221)
Mar	9	M	Annelids and Allied Taxa III	Chapter 11 (pp. 204-221)
Mar	11	W	Smaller Ecdysozoans I	Chapter 12 (pp. 222-234)
Mar	12	F	Smaller Ecdysozoans II	Chapter 12 (pp. 222-234)
Mar	15	M	<b>No class - Spring Break</b>	
Mar	17	W	<b>No class - Spring Break</b>	
Mar	19	F	<b>No class - Spring Break</b>	
Mar	22	M	Smaller Ecdysozoans III	Chapter 12 (pp. 222-234)
Mar	24	W	Arthropods I ( <b>Quiz 5</b> )	Chapter 13 (pp. 235-245)
Mar	26	F	Arthropods II	Chapter 13 (pp. 235-245)
<b>Mar</b>	<b>29</b>	<b>M</b>	<b>Exam 3</b>	Molluscs-Smaller Ecdysozoans
Mar	31	W	Arthropods III	Chapter 13 (pp. 235-245)
Apr	1	F	Echinoderms	Chapter 14 (pp. 280-299)
Apr	5	M	Chaetognaths and Hemichordates	Chapter 14 (pp. 280-299)

Apr	7	W	Intro to Chordates	Chapter 15 (pp. 300-316)
Apr	19	F	Fishes I ( <b>Quiz 6</b> )	Chapter 16 (pp. 317-340)
Apr	12	M	Fishes II	Chapter 16 (pp. 317-340)
Apr	14	W	Un-natural history of the Cane Toad	Video
<b>Apr</b>	<b>16</b>	<b>F</b>	<b>Exam 4</b>	Arthropods, Echiinoderms, Chaetognaths, and Hemichordates
Apr	19	M	Amphibians I	Chapter 17 (pp. 341-355)
Apr	21	W	Amphibians II	Chapter 17 (pp. 341-355)
Apr	23	F	Amniote origins and Reptiles I	Chapter 18 (pp-356-374)
Apr	26	M	Dinosaurs and Intro to Birds ( <b>Quiz 7</b> )	Chapter 19 (pp. 375-398)
Apr	28	W	Birds cont, and Intro to Mammals	Chapter 20 (pp. 399-449)
Apr	30	F	Mammals cont.	Chapter 20 (pp. 399-449)
May	7	F	Final 10:00-11:50 am	

**Information sheet (please print legibly, thanks!):**

Name \_\_\_\_\_ Choose a 6-letter code name \_\_\_\_\_

Home town \_\_\_\_\_ High school attended \_\_\_\_\_

What year are you? (freshman, sophomore, etc.) \_\_\_\_\_ Major \_\_\_\_\_

e-mail address \_\_\_\_\_  
(Please print this address very carefully, exactly as you would send a message to yourself.)

Other OSU activities you are involved in \_\_\_\_\_

Do you read any magazines? If so, what are they? \_\_\_\_\_

What are the last two books you read that were not required as part of a course? \_\_\_\_\_

What museum did you last visit, and when was that visit? \_\_\_\_\_

Have you taken at least six semesters of a foreign language, or do you speak and read a language other than English, and if so, what is it? \_\_\_\_\_

Foreign countries you have visited \_\_\_\_\_

Reason you are taking this course \_\_\_\_\_

Might you be at all interested, ever, in undergraduate research? \_\_\_\_\_

Do you have a scholarship? \_\_\_\_\_ If so, what kind? \_\_\_\_\_