

# COURSE SYLLABUS

## BIOL 4200K: ZOOLOGY (FALL 2008)

**Instructor:** Dr. Mark T. Sugalski **Phone:** 678-915-3601 (Office)

Associate Professor of Biology

**Office:** E-100 Crawford Laboratory Building

**Email:** [msugalsk@spsu.edu](mailto:msugalsk@spsu.edu)

**Office Hours:** 10:30 – 1:00 pm T,  
Noon – 1:00 pm W,  
10:30 am – Noon R, or by appointment

*Feel free to stop by my office at any time. If I am not busy, I will be happy to speak with you!*

**Course Web Page (VISTA):** <http://spsu.view.usg.edu/>

**Student VISTA Login Instructions:** [http://webct.spsu.edu/vista\\_login\\_instructions\\_ext.html](http://webct.spsu.edu/vista_login_instructions_ext.html)

### Course Description & Learning Outcomes:

This course will discuss the anatomy, classification, adaptive physiology, ecology, and evolution of the major phyla of invertebrate and vertebrate animals. *Prerequisite:* BIOL 2108K

• Specifically, student outcomes of this course will be:

- (1) to understand the role of evolution in animal diversity, and to understand the taxonomy, behavior, anatomy, and physiology of protists, sponges, & radiate animals.
- (2) to understand the taxonomy, behavior, anatomy, and physiology of acoelomates, pseudocoelomates, mollusks, and annelids.
- (3) to understand the taxonomy, behavior, anatomy, and physiology of arthropods, lesser protostomes, echinoderms, hemichordates, and chordates.
- (4) to understand the taxonomy, behavior, anatomy, and physiology of the vertebrates.
- (5) to become proficient in zoological microscopy and animal dissection techniques and structural identifications.

### Required Textbooks:

- ***Animal Diversity*** (4<sup>th</sup> ed.) by Hickman et al. (ISBN: 0072528443)
- ***Laboratory Studies in Animal Diversity*** (4<sup>th</sup> ed.) by Hickman & Kats (ISBN: 0073260983)
- ***A Photographic Atlas for the Zoology Laboratory*** (5<sup>th</sup> ed.) by Van De Graff & Crawley (ISBN: 0895826658)
- ***The Diversity of Life*** (revised edition) by E.O. Wilson (ISBN: 0393319407)

**Meeting Times:** Lecture: 9:00-9:50 am MWF

Lab: 2:00-4:50 pm M

### Evaluation:

Evaluation for the class will be based on the following criteria:

• Four lecture exams	65 points
• <u>Laboratory assignments/practicals*</u>	<u>35 points</u>
	= <b>100 total points (%)</b>

*\*see tentative laboratory schedule for details*

**Grading Scale:** *out of 100 points (%)*

**A** = 90 – 100%

**B** = 80 – 89.9%

**C** = 70 – 79.9%

**D** = 60 – 69.9%

**F** = below 60%

*To determine the number of course points earned, simply calculate your current % average for each criterion and multiply the % average by that criterion point value.*

*The resulting number represents the number of points earned for that criterion. Repeat this for each criterion, and then add the earned points together. The point total represents the total points earned for the course & can be then be compared to the grading scale.*

### Exams:

- Exams are not comprehensive; although each will assume that previous material was learned.
- Exams will cover lecture material, as well as chapter readings from the book ***The Diversity of Life***. Exam format may vary, but expect 10% of the exam questions will be derived from ***The Diversity of Life*** readings.
- Students will not be readmitted into the classroom if they leave during an exam. Use the bathroom BEFORE the exam/lab practical!

### Late Work & Makeup Examinations:

- Written assignments are due at the beginning of the class period. Assignments handed in after the designated due date will be penalized 5%/day late (including weekends). **NOTE! Assignments that are submitted  $\geq 7$  days after the original due date WILL NOT be accepted.**
- Make-up lecture examinations WILL NOT be given, except for SERIOUS medical conditions and participation in games for SPSU sports teams. **A physician MUST provide written documentation of the illness, and must include an address and contact telephone number.** Documentation is also required for sports-related absences, and is required 1 week in advance. Failure to provide adequate confirmation will result in a zero for the exam. The makeup exam will be in the format of my choosing (oral & essay exams are likely formats).
- Due to the time, effort, and resources involved, lab related assessments missed due to absence MAY NOT be made up. The student will receive a grade of zero for missed lab assessments.

### Attendance Related Issues:

- In order to receive maximum benefit from the course, students must attend lecture. Absence from **MORE THAN 3** lectures will result in the lowering of your final grade by 3% for each unexcused absence greater than three. Only SERIOUS medical conditions and games for SPSU sports teams will be considered an “excused” absence. **A physician MUST provide written confirmation of the illness, and must include a contact telephone number.** Documentation is also required for sports-related absences, and is required 1 week in advance.
- Attendance of (and participation in) laboratories is mandatory. Absence from **MORE THAN 1** laboratory will result in the lowering of your final grade by 3% for each absence.
- I reserve the right to reward diligent students with perfect attendance by increasing their final grade by 3%.
- I will consider chronically tardy students absent for the purposes of attendance (i.e., 3 tardies = 1 absence). If a student is more than 25 minutes late, they will be counted as absent. *NOTE: If you must be late, enter the class and sit down quietly.*
- I will not provide copies of my lecture notes for students who miss class. Ask your classmates.
- If you missed receiving a handout due to absences/tardiness, check VISTA or beg a classmate to loan you theirs to photocopy.
- **You are responsible for keeping up with all class announcements regarding assessments, activities, and changes in the syllabus. Students who miss announcements due to tardiness or unexcused absences should consult their classmates (not me) regarding what they missed.**

### Academic Dishonesty & Other Inappropriate Student Behavior:

- All work must be your own! I take any form of cheating VERY personally; therefore, if you are caught cheating on any graded assignment you will receive an F for the entire course. An F grade issued for academic dishonesty cannot be converted to a W. See the SPSU student handbook for details on this issue (<http://www.spsu.edu/student/handbook5.html>).
- Violations of the **SPSU Student Code of Conduct** will not be tolerated (see <http://www.spsu.edu/student/handbook5.html> for details). Any student violating this code will be reported to the appropriate campus authorities for disciplinary action. Note that transgressions may result in your removal from the class (with a grade of F) and/or expulsion from SPSU.
- Students who engage in disruptive or offensive classroom behavior will be asked to leave, and the incident will be reported to the appropriate campus authorities. Repeated transgressions will result your permanent dismissal from the course (with a grade of F).
- Note that confirmed cases of Academic Dishonesty, as well as other transgressions of the SPSU Student Code of Conduct, can result in a record of the infraction on your academic transcript.
- All cell phones, PDAs, and MP3 players (or equivalent) must be turned off & stowed before class begins. Using these items during class is just plain rude.

### Learning Disabilities:

- Students with learning disabilities who believe that they may need accommodations are encouraged to contact the counselor working with the ATTIC at 678-915-7244 as soon as possible. This will ensure that accommodations are implemented in a timely fashion.
- I **MUST** receive a copy of the completed ‘Faculty Accommodation Form’ from the ATTIC before I provide any class accommodations.

- Student assessment accommodations often require significant extra effort and scheduling adjustments on my part. **Thus, a student needing accommodations MUST verbally contact me** (i.e., phone or in person) **at least 24 hours** prior to **ANY** assessment to discuss and formally define accommodation details. **If a student does not contact me at least 24 hours prior to an assessment, I will assume that no accommodations are needed and none will be provided.** NOTE: it is the student's responsibility to contact me, not vice versa.

## TENTATIVE LECTURE SCHEDULE

<b>WEEK</b>	<b>WEEK OF</b>	<b>TOPIC</b>	<b>TEXT CHAPTER(S)*</b>
1	8/18	Science of Zoology & Evolution of Animal Diversity (part) Animal Architecture (part) Animal Classification & Phylogeny (part)	1 3 4 <i>Storm over the Amazon</i>
2	8/25	Animal-like Protista Sponges	5 6 <i>Krakatau</i>
3	<b>9/1</b> 9/3-9/5	<b>Labor Day (NO CLASS)</b> Radiate Animals	--- 7 <i>The Great Extinctions</i>
4	9/8	Acoelomate Animals Pseudocoelomate Animals <b>EXAM 1 (on 9/12; Chapters 1 &amp; 3-7)</b>	8 9 <i>The Fundamental Unit</i>
5	9/15	Molluscs	10 <i>New Species</i>
6	9/22	Annelids	11 <i>The Forces of Evolution</i>
7	9/29	Annelids	11 <i>Adaptive Radiation</i>
8	10/6	Arthropods <b>EXAM 2 (on 10/10; Chapters 8-11)</b>	12 <i>The Unexplored Biosphere</i>
9	10/13	Arthropods	12 <i>The Creation of Ecosystems</i>
10	10/20	Arthropods Lesser Protostomes	12 13 <i>Biodiversity Reaches the Peak</i>
11	10/27	Echinoderms & Hemichordates	14 <i>The Life &amp; Death of Species</i>
12	11/3	Chordates <b>EXAM 3 (on 11/7; Chapters 12-14)</b>	15 <i>Biodiversity Threatened</i>
13	11/10	Fishes Early Tetrapods & Amphibians	16 17 <i>Unmined Riches</i>
14	11/17	Reptiles Birds	18 19 <i>Resolution</i>
15	11/24 <b>11/26-11/28</b>	Mammals <b>Thanksgiving Break (NO CLASSES)</b>	20 <i>The Environmental Ethic</i>
16	12/1 12/4	Mammals <b>Last Day of Fall Classes (NO CLASS on 12/6)</b>	20 ---
	<b>TBA</b>	<b>EXAM 4 (FINAL – Chapters 15-20)</b>	

**\*NOTE!** *Items in italics refer to your “Diversity of Life” Chapter readings*

## TENTATIVE LABORATORY SCHEDULE

<u>WEEK</u>	<u>DATE</u>	<u>TOPIC</u>	<u>EXERCISE(S)</u>
1	8/18	<b>NO LAB</b>	
2	8/25	Phylogeny Lab	<i>on-line lecture exercise</i>
3	9/1	<b>NO LAB (Labor Day)</b>	
4	9/8	The Protozoa	4A, B, C, D
5	9/15	Radiate Animals	6A, B, C
6	9/22	The Acoelomate Animals	7A, B, C
7	9/29	<b>LAB EXAM 1</b>	
8	10/6	The Molluscs	9A, B, C
9	10/13	The Annelids	10A, B, C
10	10/20	The Crustacean Arthropods	12
11	10/27	<b>LAB EXAM 2</b>	
12	11/3	The Chelicerate & Uniramian Arthropods	11A; 13A, C
13	11/10	The Echinoderms	14A, B, D
14	11/17	The Fishes	16A, B, (C)
15	11/24	Open Review	
16	12/1	<b>LAB EXAM 3</b>	

The Zoology Lab (E-203 Science Building) will be open to students for independent review at regular times throughout the week. I will notify you as to the exact days & times lab will be open soon after the semester begins. Modifications to this schedule may be announced during the course of the semester.

**GRADING:** The performance in lab (as a percentage of the 100 total laboratory points) will be worth 35% of your final BIOL 4200K grade.

9 Lab assignments	5 points each (45 total)
3 Lab Exams**	12.5 points each (50 total)
Participation	5 points
<b>Total Laboratory Points</b>	<b>100</b>

\*\*NOTE! Your highest lab exam score will be counted **twice!**