

Instructor: Hisaya Fukui
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Office Hours: TBA

Lecture hours: Tuesday & Thursday 12:45-2:05pm **EBS 309**
Online Textbook: NatureJournal. ISBN: 978-0-9800267-5-7 (required)
Course Sign-In (do first!): <http://www.notesnetwork.net/index.htm>
Purchase Textbook at: <http://www.naturejournal.net/sbcc/index.htm>
Username: 'animal' Password: 'coral'

Zoology 122 Website/Textbook: <http://www.animalbio.net/zoology/index.htm>

Username: Your SBCC student ID# (use capital 'K'), **Password:** animal name assigned to you (all lower-case)

Course Description and Student Learning Outcomes (SLO's):

Animal Diversity is a general zoology course emphasizing the variety of structures, functions and adaptations of protozoa and animals. Animal Diversity (Zoology 122) combined with Animal Diversity Laboratory (Zoology 123) satisfies the SBCC General Education Requirement in Natural Sciences and transfers to all UC and California State University campuses where they will also satisfy a general education requirement for a life science laboratory course. Animal Diversity alone satisfies the UC/CSU general education (IGETC) requirement for a life science lecture course.

By the end of the course, you should be able to describe the system by which animals are organized within the various taxa; describe the structure and function of animal cell structures; describe, compare and contrast the structures and functions of the skeletal, digestive, nervous, circulatory, reproductive, endocrine, muscular, osmoregulatory, and sensory systems of animal phyla; describe the life histories of animals from all major phyla; describe the evidence for evolutionary relationships between animal phyla; and compare and contrast the unique features of animal phyla.

Attendance:

Attending lecture is very important for succeeding in this course. You are expected to attend each & every lecture and to arrive at the lecture hall on time. It is your responsibility to arrive on campus in time to find parking if you drive to school. If you miss a lecture it is your responsibility to obtain lecture notes from a fellow classmate. Notes will not be provided by the instructor for any missed classes regardless of whether or not it is an excused absence.

Use of Electronic Devices:

The use of cell phones for any purposes during lectures is **NOT** permitted. Please turn your cell phone off or have it on silent mode for the duration of each lecture. Laptops & tablets are permitted for taking notes and for taking 'open-note' lecture quizzes. Browsing the internet during class however is **NOT** permitted. Any student caught using any electronic device for any purposes other than those permitted will be given 2 verbal warnings for the semester, after which a report will be filed with the administration office.

Student Disruptive Behavior:

Any form of disruptive behavior during lectures will not be tolerated. This includes talking or texting during lecture, browsing the internet, bothering other students, and attending lecture under the influence of any substance that compromises your ability to behave in an appropriate manner. Any student exhibiting any form of disruptive behavior during lecture will be given one verbal warning. Any further disruptions will result in the student being asked to leave lecture for that day. Students who continue to display disruptive behavior will be subject to academic penalties and a report will be filed with the admissions office.

Academic Dishonesty:

There is a zero-tolerance policy for any form of cheating that takes place in both lecture and labs and this will be strictly enforced. This includes, but is not limited to, looking at other student's work or accessing any external resources or cheat notes during quizzes & exams. Students caught cheating will be subject to severe academic penalties and reports will be filed with the SBCC administration office. Please refer to the "Standards of Student Conduct" provided in the SBCC schedule of classes and SBCC catalog for further information regarding this campus-wide policy.

Issues with Online Text & Online Quizzes:

If for any reason you encounter any issues regarding purchasing or accessing your online textbook or online quizzes please contact the webmaster Larry Friesen at: 122zoology.spr@animalbio.net

Student Evaluation:

Lecture grades are awarded based on three in-class lecture examinations, weekly online textbook quizzes and periodic lecture quizzes. You will be required to incorporate material from lectures and the online textbook in exams and quizzes. Exams consist of multiple-choice, fill-in, and illustrated essay form questions which may require students to incorporate hand-drawn illustrations.

The online textbook quizzes will be announced in class and posted to the course website at least one week before they are due and you will submit your answers using quiz forms within the textbook. Textbook quizzes may be multiple choice and/or short answer. The onsite lecture quizzes are unannounced and are to be completed in class. Lecture quizzes may require you to produce hand-drawn, labeled illustrations of material discussed in previous lectures.

Course Point Breakdown & Grading Scale:

Three Lecture Examinations: 300 points (100 points each)

Online Textbook Quizzes: 100 points

Weekly Lecture Quizzes: 100 points

Assignment Grade Scale (**percentage** of total points): A= 100-85; B= 84-75; C= 74-65; D= 64-55; F= 54-00

Course Grade Scale (total points): A= 500-425; B= 424-375; C= 374-325 ; D= 324-275 F= 274-0

Exams:

There are three exams which will take place during the semester and each exam is non-cumulative. This means that each exam will cover approximately 1/3 of the course material. I will provide you with each exam and you will write directly on each exam so you are not required to bring a Scantron sheet or bluebook on exam days. The exams are designed to test you on broad-based concepts as well as illustrations, terms, labelled diagrams, and other material presented during lectures.

Exam Makeup's:

There are no make-up exams offered except for in the case of an illness/death to you or an immediate family member. Documentation must be provided to the instructor which clearly states why you were unable to take the exam on the scheduled date. **Medical, legal, or any other scheduled appointments are not considered excused absences. It is your responsibility to schedule your appointments so that they do not conflict with this class.**

Quizzes:

There are online quizzes (~10 total) that you will submit online. You will be notified of upcoming due dates for quizzes at least 5 days ahead of time. There will also be in-class lecture quizzes periodically which will test you on material presented in lectures only. While each quiz may not represent a large portion of your final grade, collectively, your quiz scores may have a significant impact on your final grade so please do not take these quizzes lightly! There are no make-up quizzes offered.

Students with Special Needs:

Accommodations for Students with Disabilities:

Disabled Student Programs and Services (DSPS) coordinate all academic accommodations for students with documented disabilities at Santa Barbara City College. If you have, or think you might have, a disability that May impact your educational experience in this class please contact DSPS to determine your eligibility for accommodations. DSPS is located in the Student Services (SS) Building, Room 162. Their phone number is [805-730-4164](tel:805-730-4164).

If you are already registered with DSPS please submit your accommodation requests via the '***DSPS Online Services Student Portal***' as soon as possible. Once submitted and confirmed please visit with me about your specific accommodations. Please complete this process in a timely manner to allow adequate time to provide accommodation.

Additional Comments:

I am very excited to have you in my class! I am here to help you succeed and I am always available to help you with any concerns or issues that may arise during the course of the semester. I can always be reached via email and usually have time to talk at the end of class. I am more than willing to schedule a meeting outside of class if you feel the need to discuss matters further. In addition, please let me know if you need further assistance and I will provide you with contact information for any of the student services provided on campus.

Lecture & Reading Assignment Schedule

<u>Week/Date:</u>	<u>Lecture Topic & Reading Assignment</u>	*Reading assignments must be completed by the date listed
#1: Tue Jan 15	Intro to Animal Diversity, Characteristics of animals To Do: Purchase online textbook & navigate site & familiarize yourself with textbook format	
Thur Jan 17	Phylogeny, Fertilization & Early Development Reading Assignment: 'What is an Animal?', 'Phylogeny', 'Fertilization & Early Development'	
#2: Tue Jan 22	Animal Reproductive Strategies Reading Assignment: 'Animal Life Histories'	
Thur Jan 24	Phylum Porifera Reading Assignment: Top Link: "Lower Invertebrates" → Porifera	
#3: Tue Jan 29	Phylum Cnidaria Reading Assignment: Top Link: "Lower Inverts" → Cnidaria	
Thur Jan 31	Phylum Platyhelminthes Reading Assignment: Top Link: "Lower Inverts" → Platyhelminthes	
#4: Tue Feb 5	Phylum Annelida Reading Assignment: Top Link: "Higher Invertebrates" → Annelida	
Thur Feb 7	Phylum Mollusca-I Reading Assignment: Top Link: "Higher Invertebrates" → Mollusca	
#5: Tue Feb 12	Phylum Mollusca-II & Exam #1 Review Reading Assignment: Top Link: "Higher Invertebrates" → Mollusca	
Thur Feb 14	Exam #1	

- #6: Tue Feb 19 **Phylum Arthropoda-I – Subphylum Crustacea**
Reading Assignment: Top Link: “Higher Invertebrates” → Crustacea
- Thur Feb 21 **Phylum Arthropoda-II – Subphylum Hexapoda (‘Uniramia’)**
Reading Assignment: Top Link: “Higher Invertebrates” → Hexapoda
- #7: Tue Feb 26 **Phylum Arthropoda-III- Subphyla Chelicerata & Myriapoda**
Reading Assignment: Top Link: “Higher Invertebrates” → Chelicerata, Myriapoda, & Hexapoda (3 separate links)
- Thur Feb 28 **Phylum Echinodermata**
Reading Assignment: Top Link: “Higher Invertebrates” → Echinodermata
- #8: Tue Mar 5 **Phylum Chordata- Class Actinopterygii**
Reading Assignment: Top Link: “Lower Chordates” → Early Chordates
Top Link: “Fishes” (read all sections)
- Thur Mar 7 **Phylum Chordata- Class Actinopterygii: Regional Endothermy in Fishes**
Reading Assignment: Top Link: “Fishes” (read all sections)
- #9: Tue Mar 12 **Phylum Chordata- Class Actinopterygii: The Tunas/Sustainable Seafoods**
Reading Assignment: none
- Thur Mar 14 **Phylum Chordata- Class Amphibia**
Reading Assignment: Top Link: “Amphibians” → read all material on amphibians
- #10: Tue Mar 19 **Phylum Chordata- Class Amphibia/Class Reptilia (non-avian reptiles)**
Reading Assignment: Top Link: “Amniotes” → read all material on reptiles
- Thur Mar 21 **Phylum Chordata- Class Reptilia (non-avian reptiles) & Exam #2 Review Session**
- #11: Tue Apr 2 **Exam #2**
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- Thur Apr 4 **Phylum Chordata- Class Aves-I ‘Birds’ (avian reptiles)**
Reading Assignment: Top Link: “Amniotes” → read all material on birds
- #12: Tue Apr 9 **Phylum Chordata- Class Aves-II: Adaptations of Birds**
Reading Assignment: Top Link: “Amniotes” → read all material on birds
- Thur Apr 11 **Phylum Chordata- Class Aves-III: Marine Birds**
Reading Assignment: Top Link: “Amniotes” → read all material on birds
- #13: Tue Apr 16 **Phylum Chordata- Class Aves- IV: Raptors (‘Birds of Prey’)**
- Thur Apr 18 **Phylum Chordata- Class Mammalia-I**
Reading Assignment: Top Link: “Amniotes” → ‘Rise of Mammals’, ‘Terrestrial Locomotion’, & ‘Kangaroo rat’ (3 sections)
- #14: Tue Apr 23 **Phylum Chordata- Class Mammalia-II: Predator/Prey Relationships & Adaptations**
- Thur Apr 25 **Phylum Chordata- Class Mammalia-III: Bears**
Reading Assignment: Top Link: “Amniotes” → ‘Rise of Mammals’, ‘Terrestrial Locomotion’, & ‘Kangaroo rat’ (3 sections)
- #15: Tue Apr 30 **Phylum Chordata- Class Mammalia-IV: Canids & Felids**
- Thur May 2 **Phylum Chordata- Class Mammalia-IV: Marine Mammals**
Reading Assignment: Top Link: “Amniotes” → ‘Sea Otter’, ‘Whales’ (2 sections)
- Finals Week: Lecture Final Exam (Exam #3): Tue May 7: 11:00-1:00pm**