

Instructor: Hisaya Fukui
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Office Hours: TBA

Lecture hours: Tuesday and Thursday 12:45-2:05pm (EBS 309)
Online Textbook: NatureJournal. ISBN: 978-0-9800267-5-7 (required)

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

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, students should be able to:

- Describe the origin of animals, the characteristics that define “animal”, and the major trends in the diversification of invertebrates and vertebrates throughout evolutionary history
- Characterize and differentiate the structural and functional characteristics of major animal phyla and how these have led to a natural, phylogenetic grouping of animal clades.
- Describe the major evolutionary changes that have occurred in the past and present animal assemblages over time and across oceans and continents.
- Compare and contrast the completion of life histories of animals from all major phyla.

Attendance:

Attending weekly Tuesday and Thursday in-person lectures is mandatory and all students are expected to attend ALL lectures with the exception of certain medical issues or an unforeseen emergencies. Excused absences from lectures will not be provided for appointments, family gatherings, personal obligations, etc. made by students during lecture hours except for when approved by the instructor. In the event that this course is required to transition to a fully online format, students will still be required to attend online Zoom lectures during our normally scheduled times.

Student Disruptive Behavior:

Any form of disruptive or inappropriate behavior during lectures will not be tolerated. This includes talking or texting during lectures, browsing the internet, bothering other students, or 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 our 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 and exams. **Cutting and pasting of any work other than your own is strictly forbidden!** 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.

The only time a student is permitted to cut and paste any text for an assignment is when they are cutting and pasting their OWN work. **Students are not permitted to cut and paste any text from our lab manuals, online textbook, or any other forms of writing that are not their own!**

Course Textbook Issues:

It is mandatory for each student enrolled in Zoo122 to purchase their own subscription to the online textbook. Instructions for signing-in to this course and then purchasing your mandatory online textbook are posted in our Canvas 'Modules' page. Sharing of the online textbook is not permitted as students will need personal access to textbook material when preparing for lectures & lecture exams. 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: zoology@zoologynotes.net

Student Evaluation:

Lecture grades are awarded based on three in-class lecture examinations, weekly online textbook quizzes, *periodic discussion topics, 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.

Course Point Breakdown & Grading Scale:

Three Lecture Examinations: 300 points (100 points each)

Online Textbook Quizzes: 100 points (10-10-point quizzes)

Weekly Lecture Quizzes: 100 points (10-10-point quizzes)

*Discussion Assignments: (TBD)

Assignment Grade Scale (**percentage** of total points): A= 100-85%; B= 84-75%; C= 74-65%; D= 64-55%; F= 54-0

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. The exams are designed to test you on broad-based concepts as well as illustrations, terms, labelled diagrams, and other material presented during lectures.

Exams will take place in our normal lecture room (EBS 309) during normal class meeting days and students will be required to complete and submit their exams within the normal lecture times (12:45-2:05pm). In the event that our class is forced to transition to a fully online format our Zoo 122 lecture exams will be posted on our course Canvas page along with specific instructions on how to complete and submit them as required. These exams will include multiple-choice, matching, fill-in, and short essay style questions. The instructor will provide further details regarding our lecture exams during lecture.

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.**

Weekly Online Textbook Quizzes:

We will have a total of 10 online textbook quizzes which will require students to read certain chapters of our online textbook and then answer these 10-question multiple-choice questions. The due dates for all textbook quizzes will be posted in their respective weekly Canvas modules. Online textbook quizzes will be posted one week prior to their respective due dates in our Canvas modules and the instructor will always remind students of upcoming quiz due dates

Weekly In-Person Lecture Quizzes:

We will have a total of 10 weekly OPEN-NOTE lecture quizzes which will cover material from that week's lectures. Students will take lecture quizzes at the end of lecture once per week and will turn them in prior to leaving class.

Students with Special Needs:

Accommodations for Students with Disabilities:

Disability Services and Programs for Students (DSPS) coordinates all academic accommodations for students with documented disabilities at Santa Barbara City College. If you have or think you might have a disability that impacts your educational experience in this class, contact DSPS to determine your eligibility for accommodations. DSPS can be reached by phone or email. The phone number is [805-730-4164](tel:805-730-4164) or send email to dsp@sbcc.edu. If you have already registered with DSPS, please submit your accommodation requests via the '**DSPS Online Services Student Portal**' as soon as possible. This needs to be done each semester. If you have any questions or concerns about your accommodations, make an appointment with a DSPS Counselor. Please complete this process in a timely manner to allow adequate time to provide accommodations.

Accommodations para students con discapacidades:

Los Programas y Servicios para Estudiantes con Discapacidades (DSPS) coordinan todas las adaptaciones académicas para los estudiantes con incapacidades documentadas en Santa Barbara City College. Si usted tiene, o cree que podría tener una discapacidad que afecta a su experiencia educativa en esta clase, póngase en contacto con DSPS para determinar si califica para servicios. Puede comunicarse por teléfono al 805-730-4164; o mandar un correo electrónico a DSPS@sbcc.com. Si ya está registrado en DSPS envíe las solicitudes de adaptación a través del '**DSPS Online Services Student Portal**' tan pronto como sea posible. Debe completar este proceso cada término académico. Si tiene alguna pregunta o duda acerca de sus acomodaciones, haga una cita con un consejero de DSPS. Complete este proceso de una manera oportuna para permitir el tiempo necesario para ofrecer la debida acomodación.

SEXUAL MISCONDUCT/TITLE IX

Sexual Misconduct and gender discrimination is not tolerated at SBCC. Title IX is the law that prohibits this kind of behavior. Please contact our Title IX Coordinator, Linda Esparza Dozer, if you have questions, or concerns about an incident, our reporting procedures, resources available to survivors, or if you just want to talk. Contact Linda at lmeparza@pipeline.sbcc.edu, 805.730.4303, or in A122. More information is also available by looking at one of the Sexual Misconduct/Title IX posters that have been posted campus wide.

Additional Comments:

I am very excited to have you in my class this Fall 2023 semester! I am fully aware that many students may encounter mental issues such as anxiety, depression, excessive stress, etc. during this semester and I will do everything in my power to ensure that you are provided with access to any resources necessary to provide you with the best opportunities to succeed in this 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 semester. I can always be reached via email and always have time to talk at the end of any lecture as well. I am also more than happy to schedule a one-on-one Zoom meeting anytime you feel the need to discuss any issues or concerns you have. 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

Lecture schedule is subject to change...

Week/Date:

Lecture Topic & Reading Assignment

Reading assignments must be completed by the date listed

#1: Tue Aug. 29 **Intro to Animal Diversity, Characteristics of animals**
To Do: Purchase online textbook & navigate site & familiarize yourself with textbook format

Thur Aug. 31 **Phylogeny, Fertilization & Early Development**
Reading Assignment: Top Link: "Foundations" → "Introduction to Animals", and "Fertilization & Early Development"

- #2: Tue Sept. 5 Animal Reproductive Strategies**
Reading Assignment: Top Link: "Foundations" → "Animal Life Histories"
- Thur Sept. 7 **Phylum Porifera**
Reading Assignment: Top Link: "Foundations" → "Phylum Porifera"
- #3: Tue Sept. 12 Phylum Cnidaria**
Reading Assignment: Top Link: "Radiata" → "Introduction to Cnidaria" & "Cnidaria"
- Thur Sept. 14 **Phylum Platyhelminthes**
Reading Assignment: Top Link: "Spiralia" → "Introduction to Spiralia" and "Platyhelminthes"
- #4: Tue Sept. 19 Phylum Annelida**
Reading Assignment: Top Link: "Spiralia" → "Annelida"
- Thur Sept. 21 **Phylum Mollusca-I**
Reading Assignment: Top Link: "Spiralia" → "Mollusca"
- #5: Tue Sept. 26 Phylum Mollusca II: Cephalopods**
Reading Assignment: Top Link: "Spiralia" → "Mollusca" (finish reading all material)
- Thur. Sept. 28 **EXAM #1: During Normal Lecture Hours** (On Weeks #1-5 lecture material)
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- #6: Tue Oct. 3 Phylum Arthropoda-I – Subphylum Crustacea**
Reading Assignment: Top Link: "Ecdysozoa" → "Introduction to Ecdysozoa" and "Crustacea"
- Thur. Oct. 5 **Phylum Arthropoda-II – Subphylum Hexapoda**
Reading Assignment: Top Link: Ecdysozoa → "Hexapoda"
- #7: Tue Oct. 10 Phylum Arthropoda-III – Subphyla Chelicerata & Myriapoda**
Reading Assignment: Top Link: "Ecdysozoa" → "Chelicerata" & "Myriapoda"
- Thur Oct. 12 **Phylum Echinodermata**
Reading Assignment: Top Link: "Deuterostomia" → "Introduction to Deuterostomia" and "Echinodermata"
- #8: Tue Oct. 17 Phylum Chordata- Introduction to Chordates & Class Chondrichthyes:**
Reading Assignment: Top Link: "Chordata" → "Introduction to Chordata" and "Chordata" → "06 Circulation"
- Thur Oct. 19 **Phylum Chordata: Class Actinopterygii: Ray-Finned Fishes Including the Tunas**
Reading Assignment: Top Link: "Fishes" → "03 Overview of Fishes" and "04 Teleosts"
- #9: Tue Oct. 24 Phylum Chordata- Class Amphibia**
Reading Assignment: Top Link: "Amphibia" → read all 4 sections
- Thur Oct. 26 **Phylum Chordata- Class Reptilia (non-avian reptiles)**
Reading Assignment: Top Link: "Reptilia" → "Introduction to Reptiles" & "Reptiles"
- #10: Tue Oct. 31 Phylum Chordata- Class Reptilia: Marine Reptiles (Last Lecture for Exam #2)**
Reading Assignment: Top Link: "Reptilia" → "Hot-Blooded Dinosaurs"
- Thur Nov. 2 **EXAM #2** (On weeks #6-10 lecture material)
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- #11: Tue Nov. 7 **Phylum Chordata- Clade Sauropsida: Order Saurichia-I 'Birds' (avian reptiles)**
Reading Assignment: Top Link: "Aves" → read "Introduction to Birds" & Profiles: "Paleognaths"
- Thur Nov. 9 **Phylum Chordata- Clade Sauropsida: Order Saurichia-II: Raptors ('Birds of Prey')**
Reading Assignment: Top Link: "Aves" → read "03 Flight Mechanics" & "04 Power, Weight, & Balance"
- #12: Tue Nov. 14 **Phylum Chordata- Clade Sauropsida: Order Saurichia- III: Coastal & Oceanic Seabirds**
Reading Assignment: Top Link: "Aves" → read "07 Bird Migration"
- Thur Nov. 16 **Phylum Chordata- Clade Sauropsida: Order Saurichia- IV: Penguins**
Reading Assignment: Top Link: "Aves" → read "05 Homeostasis" & → Read "Profiles:Penguins"
- #13: Tue Nov. 21 **Phylum Chordata- Class Mammalia-I**
Reading Assignment: Top Link: "Mammalia" → read "Origin of Mammals"
- Thur Nov. 23 **NO LECTURE:** THANKSGIVING HOLIDAY
- #14: Tue Nov. 28 **Phylum Chordata- Class Mammalia-II: Wild Dogs & Wild Cats**
Reading Assignment: Top Link: "Mammalia" → read 'Sea Otter'
- Thur Nov. 30 **Phylum Chordata- Class Mammalia-III: Bears**
Reading Assignment: Top Link: "Mammalia" → read "Endothermy"
- #15: Tue Dec. 5 **Phylum Chordata- Class Mammalia-IV: Ungulates (Hoofed mammals)**
Reading Assignment: NONE
- Thur Dec. 7 **Phylum Chordata- Class Mammalia-V: Marine Mammals**
Reading Assignment: Top Link: "Mammalia" → read "Cetacea"

Finals Week (Dec. 11-16th): Lecture Final Exam (Exam #3): Thursday Dec. 14th: 11:00am-1:00pm