

# Survey of Zoology (BioSci 100) — Spring 2023

**Professor:** Dr. Gerlinde Höbel  
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Office Hours: by appointment; please arrange via email

This course contains both **lecture and laboratory** components.  
You cannot pass the course if you do well in only one component (lecture or lab)

**Lecture:** **Online – Asynchronous.** Students can complete class work on their own time during a set time frame (2-3 weeks).

- lecture material is posted on CANVAS, in 6 modules
- each lecture is accompanied by a short extra-point quizzes; EP quizzes are optional, taking them can increase your grade, but never hurt your grade

**Lecture Text:** There is no required textbook for this class. If you wish to consult a textbook, Animal Diversity, any edition, by Hickman/Roberts/Larson; McGraw Hill

**Lab:** **In Person;** lab material will be posted on CANVAS, in dedicated modules for each lab topic

**Lab Manual:** No lab manual required. Readings and handouts will be available on CANVAS

**Access to course materials:** CANVAS course website.

**Scope and focus:** This is a survey of the animal kingdom covering principles of biodiversity, including the origin, evolution, and ecology of animals. The course is intended for non-science majors with no science background other than high school biology. There are no prerequisites. **The course WILL satisfy the natural science laboratory requirement in Biology for non-majors.**

This class does NOT count as credit toward the major in Biological Sciences!

## LECTURE EXAMS:

- (1) **Five (5) lecture exams** will be given (for topics covered please see lecture schedule). Each lecture exam is weighed equally and is not cumulative. Exams will include matching, true/false and multiple choice questions. Exams are **online, 50 Questions, time limited to 50 min** once started.
- (2) Students missing any one of the 5 regular lecture exams are **required** take the Cumulative Exam (#6) during the final exam period. The grade for the Cumulative Exam will be substituted for the exam you missed.
- (3) Students who have taken all 5 regular lecture exams have the **OPTION** of also taking the Cumulative Exam (#6) to replace their lowest regular exam score. If you take all 6 exams only top 5 scores will count toward the final grade; that means you can miss one exam without hurting your grade.
- (4) Exams have a **due date**, with a 20% per day late penalty (i.e., if you forget an exam due date, you can get partial credit for taking it late)
- (5) Exams are available from the start of the semester; if you wish you can go through the lecture material at a faster pace than suggested by the exam due dates.

**FINAL EXAM:** **online open May 12-17**

## LECTURE EXTRA POINTS:

Each lecture has a short online quiz associated with it. Quizzes are optional, and close the day of the respective module's exam due date. I **will not reopen** quizzes after they have closed.

## Lecture Schedule

The lecture will take you through the entire diversity of animals on earth, – groups you are familiar with, and many you likely have never heard of–.

Week	Dates	Lecture	Exams
1	Jan 23	<b>Intro</b>	
2	Jan 30	<b>Module 1: The Basics</b> Evolution, Animal Architecture, Life on Earth	1
3	Feb 6		
4	Feb 13		
5	Feb 20	<b>Module 2: Unicellular Organisms &amp; Diploblasts</b> Protists, Porifera & Placozoa, Cnidaria & Ctenophora	
6	Feb 27	<b>Module 3: Lophotrochozoa</b> Flatworms et al., Lophophores et al., Molluscs, Annelids	2
7	Mar 6		
8	Mar 13	<b>Module 4: Ecdysozoa</b> Nematoda & Nematomorpha, Smaller Ecdysozoa, Arthropods 1, Arthropods 2 & Spring Break	3
9	<b>Mar 20</b>		
10	Mar 27		
11	Apr 3		
12	Apr 10	<b>Module 5: Deuterostomes</b> Echinoderms & Hemichordates, Chordates & Cartilag. Fishes, Bony Fishes, Amphibians	4
13	Apr 17		
14	Apr 24		
15	May 1	<b>Module 6: Amniotes</b> Reptiles, Birds 1, Birds 2, Mammals 1, Mammals 2	5
16	May 8		
<b>Finals week</b>			<b>6- Final</b>

\*\* If you need special accommodations in order to meet any of the requirements of this course, please contact Dr. Höbel as soon as possible. \*\*

## Lab Schedule

Week	Dates	Lab Topics
1	Jan 23	<b>No in-person lab this week!</b>
2	Jan 30	Taxonomy & Cells
3	Feb 6	Microscope & Protists
4	Feb 13	“Wonderful Worms” (esp. Flatworms, Nematodes, Annelids)
5	Feb 20	Fishes
6	Feb 27	Amphibians & Reptiles
7	Mar 6	Birds
8	Mar 13	Mammals
9	<b>Mar 20</b>	<b>Spring Break</b>
10	Mar 27	Favorite Animal Presentation 1
11	Apr 3	Favorite Animal Presentation 2
12	Apr 10	Arthropods
13	Apr 17	Aquatic Invertebrates (compare invertebrates collected at local ponds)
14	Apr 24	Eastside Arthropods (survey & compare arthropod diversity on campus; <b>we go outside; dress accordingly</b> )
15	May 1	<b>No Lab</b>
16	May 8	<b>No Lab</b>

Note: in Spring semesters, the lab sequence does not tightly follow the lecture sequence of animal phyla – there are just no arthropods around yet until the end of the semester

**Grading:** Exams + EP quizzes 60% of final grade  
 Laboratory 40% of final grade (see lab syllabus for details)

**Grading Scheme**

		<b>B+</b>	87-89%	<b>C+</b>	77-79%	<b>D+</b>	67-69%	<b>F</b>	0-59%
<b>A</b>	93-100%	<b>B</b>	83-86%	<b>C</b>	73-76%	<b>D</b>	63-66%		
<b>A-</b>	90-92%	<b>B-</b>	80-82%	<b>C-</b>	70-72%	<b>D-</b>	60-62%		

**ACADEMIC INTEGRITY**

Academic honesty and professional behavior are fundamental to the activities and principles of UWM. As with all classes at the University, academic dishonesty (cheating and plagiarism) will not be tolerated in this course. This class has a very strict cheating policy. If you cheat or plagiarize on an assignment, or exam, at the least you will receive 0 points for that assignment. You will also be reported for further disciplinary action, which can range from probation to expulsion from the University.

In my experience, many students don't know that some behaviors that seemed acceptable in high school are considered "cheating" in college. Copying homework answers from another student's or copying even a single sentence directly from a book or online source without citing it qualify as cheating, and the cheating policy applies whether you knew you were cheating or not. Make sure you have a clear understanding of what is acceptable and what is not, and when in doubt, do not hesitate to ask me or your TA. Please read UWM's policies and procedures on academic misconduct at: <http://www4.uwm.edu/osl/dean/conduct.cfm>

**Statement of ADA Policy:**

If you feel that you may need accommodations based on the impact of a disability in order to meet any of the requirements of this course, please contact me to arrange an appointment as soon as possible.