

## DINOSAURS: A NATURAL HISTORY (GEOL 104)

**Term:** Fall 2024

**Instructor:** Dr. Thomas R. Holtz, Jr., Principal Lecturer, Department of Geology

**Pronouns:** he/him

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**Office Hours:** Wednesdays 2-3:30 pm, CHM 1225B

**Credits:** 3 (DSNS)

**Course Dates:** From Aug 28, 2023 – Dec 20, 2023

**Course Times:** MWF 10-10:50

**Classroom:** EGR 0108



### Course Description

Welcome to GEOL 104 Dinosaurs: A Natural History. This course focuses on dinosaurs, their evolution, and our understanding of their fossil record. Students will examine the geologic record and the tools used by paleontologists to determine geologic ages and ancient environments; evolutionary history and extinctions; dinosaurian biology and behavior; and their survival as birds. Mechanisms of global change ranging from plate tectonics to asteroid impact will be discussed.

This course examines how scientists study the age, environments, evolution, origin, biology, behavior, and extinctions of dinosaurs and the other inhabitants of their world. We will explore several big themes:

- The scale of geologic and evolutionary time
- Biological evolution and the origin, evolution, and diversification (and occasional extinction) of branches of the Tree of Life
- The nature of scientific knowledge, and how diverse lines of evidence are used to reconstruct events of the ancient past
- What an understanding of dinosaurian biology, behavior, ecology, and extinction can reveal about modern environmental conditions

## Learning Outcomes

After successfully completing this course, you will be able to:

- Identify the major clades of dinosaurs and their primary attributes (anatomy, behavior, stratigraphic and geographic distribution, etc.)
- Interpret cladograms in determining evolutionary relationships and distribution of specializations
- Assess claims of inferred dinosaurian behavior, physiology, and extinction patterns from fossil evidence
- Furthermore, as DSNS (Distributive Studies Natural Sciences) course, all students who complete this course should be able to:
  - Demonstrate a broad understanding of scientific principles and the ways scientists in a particular discipline conduct research.
  - Apply quantitative, mathematical analyses to science problems.
  - Solve complex problems requiring the application of several scientific concepts.
  - Look at complex questions and identify the science and how it impacts and is impacted by political, social, economic, or ethical dimensions.
  - Critically evaluate scientific arguments and understand the limits of scientific knowledge.
  - Communicate scientific ideas effectively.

## Required Resources

- Course Websites: <https://elms.umd.edu> and <https://www.geol.umd.edu/~tholtz/G104>
- Book: There is no textbook for this course: instead, there are extensive online lecture notes (<http://www.geol.umd.edu/~tholtz/G104/104Syl.html>). There may be some occasions when some extra lecture material will be presented as Panopto videos on ELMS; please watch these by the date announced.
- There is one required self-guided field trip to the Smithsonian Institution's National Museum of Natural History. Although the museum is free, you would need to transport yourself there. The Archives/Navy Memorial Metro Station is the closest, and (like the College Park Station) is on the Green Line.
- Total Estimated costs of required course materials: \$10 round trip Metro fare from the College Park Station to Archives/Navy Memorial Station.

## Course Structure

3 lectures per week (Monday, Wednesday, Friday). 1 online homework (or exam) per week. 1 required self-guided Smithsonian exhibit assignment.

Lectures lost due to University late openings or cancellations or instructor absence will be made up as Panopto video recordings on the ELMS page.

Attendance in lecture is expected. The individual PowerPoints will not be provided to students, although there are detailed lecture notes online and Panopto recordings of the lectures will be available on ELMS. Furthermore, the Questions of the Day (QotDs) will only be provided during lecture. If you want to achieve a good grade in the course, the time to start working towards that is from the very beginning! Keep up with the material as it is presented rather than "cramming" to study it right before exams.

**NOTE:** Attendance means more than mere presence: it means "paying attention". Please take out your ear buds and refrain from texting/web-browsing/doing homework/etc. in class.

## Tips for Success in this Course

1. **Participate.** I invite you to engage deeply, ask questions, and talk about the course content with your classmates. You can learn a great deal from discussing ideas and perspectives with your peers and professor. Participation can also help you articulate your thoughts and develop critical thinking skills.
2. **Manage your time.** Students are often very busy, and I understand that you have obligations outside of this class. However, students do best when they plan adequate time that is devoted to course work. Block your schedule and set aside plenty of time to complete assignments including extra time to handle any technology related problems.
3. **Login regularly.** I recommend that you log in to ELMS-Canvas several times a week to view announcements, answer your Questions of the Day, keep up with the lecture notes, and answer the weekly online homework.
4. **Do not fall behind.** This class moves at a quick pace and each week builds on the previous content. If you feel you are starting to fall behind, check in with the instructor as soon as possible so we can troubleshoot together. It will be hard to keep up with the course content if you fall behind in the pre-work or post-work.
5. **Use ELMS-Canvas notification settings.** Pro tip! Canvas ELMS-Canvas can ensure you receive timely notifications in your email or via text. Be sure to enable announcements to be sent instantly or daily.
6. **Ask for help if needed.** If you need help with ELMS-Canvas or other technology, IT Support. If you are struggling with a course concept, reach out to me and your classmates for support.

## Policies and Resources for Undergraduate Courses

It is our shared responsibility to know and abide by the University of Maryland's policies that relate to all courses, which include topics like:

- Academic integrity
- Student and instructor conduct
- Accessibility and accommodations
- Attendance and excused absences
- Grades and appeals
- Copyright and intellectual property

Please visit [www.ugst.umd.edu/courserelatedpolicies.html](http://www.ugst.umd.edu/courserelatedpolicies.html) for the Office of Undergraduate Studies' full list of campus-wide policies and follow up with me if you have questions.

## Course Guidelines

### Names/Pronouns and Self-Identifications:

The University of Maryland recognizes the importance of a diverse student body, and we are committed to fostering inclusive and equitable classroom environments. I invite you, if you wish, to tell us how you want to be referred to in this class, both in terms of your name and your pronouns (he/him, she/her, they/them, etc.). Keep in mind that the pronouns someone uses are not necessarily indicative of their gender identity. Visit [trans.umd.edu](http://trans.umd.edu) to learn more.

Additionally, it is your choice whether to disclose how you identify in terms of your gender, race, class, sexuality, religion, and dis/ability, among all aspects of your identity (e.g., should it come up in classroom conversation about our experiences and perspectives) and should be self-identified, not presumed or imposed. I will do my best to address and refer to all students accordingly, and I ask you to do the same for all of your fellow Terps.

### **Communication with Instructor:**

Email: If you need to reach out and communicate with me, please email me at [tholtz@umd.edu](mailto:tholtz@umd.edu) or (preferred) using the Inbox email function of ELMS. Please DO NOT email me with questions that are easily found in the syllabus or on ELMS (i.e., When is this assignment due? How much is it worth? etc.) but please DO reach out about personal, academic, and intellectual concerns/questions.

While I will do my best to respond to emails within 24 hours, you will more likely receive email responses from me on morning after you send an email message.

ELMS: I will send IMPORTANT announcements via ELMS messaging. You must make sure that your email & announcement notifications (including changes in assignments and/or due dates) are enabled in ELMS so you do not miss any messages. You are responsible for checking your email and Canvas/ELMS inbox with regular frequency.

### **Communication with Peers:**

With a diversity of perspectives and experience, we may find ourselves in disagreement and/or debate with one another. As such, it is important that we agree to conduct ourselves in a professional manner and that we work together to foster and preserve a virtual classroom environment in which we can respectfully discuss and deliberate controversial questions. I encourage you to confidently exercise your right to free speech—bearing in mind, of course, that you will be expected to craft and defend arguments that support your position. Keep in mind, that free speech has its limit, and this course is NOT the space for hate speech, harassment, and derogatory language. I will make every reasonable attempt to create an atmosphere in which each student feels comfortable voicing their argument without fear of being personally attacked, mocked, demeaned, or devalued.

Any behavior (including harassment, sexual harassment, and racially and/or culturally derogatory language) that threatens this atmosphere will not be tolerated. Please alert me immediately if you feel threatened, dismissed, or silenced at any point during our semester together and/or if your engagement in discussion has been in some way hindered by the learning environment.

## **Major Assignments**

**Midterm Exams** (23% each): Two online exams on October 1-2 and October 31-November 1, respectively. For each of these there will be a section comprised of true/false, matching, multiple choice, and similar type questions, as well as a few short answer questions. These exams are open note but timed (60 minutes) and are subject to the University's Honor Pledge; you may not seek help from students or other people in doing these. If you encounter a technical problem, please contact [ELMS@umd.edu](mailto:ELMS@umd.edu) for help (and Dr. Holtz so that he is aware of your situation).

**Final Exam** (23%): A online final exam during the regularly scheduled exam season. It is cumulative for the entire course but focuses on the material since the second midterm. Format and rules are the same as the mid-term exams, but you have 120 minutes in which to complete it. The exam will be held December 16-17.

**Online Weekly Homework** (10% total): There will be a series of online homework assignments (generally one per week in which there is not also an exam), administered through ELMS. These homework assignments are open-note, but they ARE subject to the Honor Pledge: you may not seek help from other people or AI in doing these. Questions asked include true/false, matching, multiple choice, short answers, and in some cases longer answers. In some cases you may be asked to upload an image for your answer. The exact questions asked are randomized, so that no two student's quizzes will be identical. The lowest homework grade will be automatically dropped; if you miss a homework for any reason, it will be accommodated in this fashion. However, only one homework at most will be dropped.

Homework assignments are normally due at 11:59 pm on Mondays. However, please give yourself sufficient time in which to complete the assignment.

**Questions of the Day (QotD)** (10% total): During each lecture there will be one or more brief question shown on the screen. Depending on the particular question, you might submit your answer on your own to ELMS, or after discussing it with a classmate nearby. You will have only a short window in which to answer the question. The format of the question can be true/false, fill-in-the-blank, multiple choice, or more open-ended. In some cases, we'll review your submissions as a point of in-lecture discussion. For the pre-recorded Panopto lectures, the QotDs will be Panopto quizzes.

The **lowest five (5) grades** of your QotDs will be automatically dropped. This is how absence from lecture will be handled. In other words, you don't separately ask for an excused absence for these. **NOTE:** facilitating fellow students who are not present in answering these questions remotely is absolutely an Honor Code violation and will result in action taken against you and the student receiving the at-a-distance help. Individual these are low-point assignments, so it is much better to lose a few points than to risk a course grade of "XF" on your University transcript!

**Smithsonian Self-Guided Field Trip Report** (10%): To take advantage of our proximity to the Smithsonian Institution National Museum of Natural History and its excellent display of fossil materials, there is an assignment requiring you to go to that museum and answer a series of questions based on your observations. There is no single formal field trip; you may go on your own or in small groups. The project is due online **NOVEMBER 11**.

**Pre-/Post-Course Survey** (1% total): In order to effectively assess the learning in the course, an online pre-course survey will be administered in the first week of class, followed by a post-course survey during the last week. You will not be graded on the specific answers on these surveys, but you will be graded for participating in the survey.

**Extra Credit:** No separate extra credit assignments as such planned for this course, although individual exams and homework assignments may have extra credit questions that add up in the final course grade.

## Grading Structure

Assignment	Percentage %
Midterm Exam 1	23%
Midterm Exam 2	23%
Final Exam	23%
Online Weekly Homework	10%
Questions of the Day (QotDs)	10%
Smithsonian Self-Guided Field Trip	10%
Pre-/Post-Course Survey	1%
Total	100%

## Academic Integrity






The University's Code of Academic Integrity is designed to ensure that the principles of academic honesty and integrity are upheld. In accordance with this code, the University of Maryland does not tolerate academic

dishonesty. Please ensure that you fully understand this code and its implications because all acts of academic dishonesty will be dealt with in accordance with the provisions of this code. All students are expected to adhere to this Code. It is your responsibility to read it and know what it says, so you can start your professional life on the right path. **As future professionals, your commitment to high ethical standards and honesty begins with your time at the University of Maryland.**

It is important to note that course assistance websites, such as CourseHero, or AI generated content (such as ChatGPT, Meta's LLaMa, and the like) are not permitted sources. Material taken or copied from these sites can be deemed unauthorized material and a violation of academic integrity. Please note that these systems are NOT search engines and are not designed to delivery factual information: instead, they are [created to deliver a facsimile of human communication, without regards to its truth](#). Using these sources will hamper your learning process, particularly the critical thinking steps necessary for college-level assignments. The point of assignments is for you to be able to develop your skills in marshalling arguments and understanding the concepts and techniques covered in this program, not for you to simply provide us with answers we already know.

Additionally, students may naturally choose to use online forums for course-wide discussions (e.g., Group lists or chats) to discuss concepts in the course. However, collaboration on graded assignments is strictly prohibited unless otherwise stated. Examples of prohibited collaboration include: asking classmates for answers on quizzes or exams, asking for the questions on QotDs when you are absent, etc. Please visit the [Office of Undergraduate Studies' full list of campus-wide policies](#) and reach out if you have questions.

Finally, on each exam or assignment you must write out and sign the following pledge: ***"I pledge on my honor that I have not given or received any unauthorized assistance on this exam/assignment."*** If you ever feel pressured to comply with someone else's academic integrity violation, please reach out to me straight away. Also, ***if you are ever unclear*** about acceptable levels of collaboration, ***please ask!*** To help you avoid unintentional violations, ***the following table*** lists levels of collaboration that are acceptable for each graded exercise. Each assignment will contain more specific information regarding acceptable levels of collaboration.

	 <b>OPEN NOTES</b>	 <b>LEARN ONLINE</b>	 <b>GATHER CONTENT With AI</b>	 <b>ASK FRIENDS</b>	 <b>WORK IN GROUPS</b>
Pre-/Post-Course Knowledge Survey	---	---	---	---	---
Homework Assignments	✓	✓	---	---	---
QotDs	---	---	---	---	---
Smithsonian Field Trip	✓	✓	---	---	✓
Midterm Exams	✓	---	---	---	---
Final Exam	✓	---	---	---	---



## Grades

All assessment scores will be posted on the course ELMS page. If you would like to review any of your grades (including the exams), or have questions about how something was scored, please email me to schedule a time for us to meet and discuss.

Late work will not be accepted for course credit so please plan to have it submitted well before the scheduled deadline. (Please contact me as soon as possible if some issue came up that prevented your timely submission of an assignment.) I am happy to discuss any of your grades with you, and if I have made a mistake, I will correct it as soon as possible. Any formal grade disputes must be submitted in writing and within one week of receiving the grade.

Final letter grades are assigned based on the percentage of total assessment points earned. To be fair to everyone I have to establish clear standards and apply them consistently, so please understand that being close to a cutoff is not the same as making the cut (89.99  $\neq$  90.00). It would be unethical to make exceptions for some and not others.

Final Grade Cutoffs									
+	97.00%	+	87.00%	+	77.00%	+	67.00%	+	
A	93.00%	B	83.00%	C	73.00%	D	63.00%	F	<60.0%
-	90.00%	-	80.00%	-	70.00%	-	60.00%	-	

## Misunderstanding the Course and Assignments

Over the years, some students have expressed misunderstandings about the nature of the course and the graded items in it. Here are some of the more common misunderstandings and responses:

- **"This is a 100-level GenEd class; it is supposed to be easy!"** Keep in mind that Organic Chemistry and Calculus are also 100-level GenEd classes... Like any course, it will involve learning and applying new information and skills. If you keep current with the lectures and assignments and ask for clarification when you don't fully understand it, you should do fine. But learning is an active verb; **you** need to make the effort to master the information if you expect to get a good grade.
- **"I spent XXX hours on this assignment/studying for this exam, so my grade should be higher!"** You are being graded on the results of the assignment, rather than the effort you put into it as such. If you find that your results are not what you'd hoped, you might try new styles of studying. For instance, you might try forming a study group with other students, asking each other questions about the material. There is no single best way to study: each of us has different strengths and weaknesses. You might consult the Office of Undergraduate Studies website on Academic Success for tips and resources if you want more help: <https://tutoring.umd.edu/academic-success>
- **"Dr. Holtz included material in the lecture and the lecture notes that weren't on the exam!"** Guilty as charged!! Perhaps the single most common misunderstanding about a University education is that the lectures and assignments exist for you to pass the exam. (It isn't your fault for this misunderstanding; quite frankly much of K-12 education is, sadly, structured this way!!) Instead, University courses exist for you to increase your knowledge about the discoveries, insights, ways of thinking, and approaches to understanding to the diverse subjects we teach. Exams, homework, and other graded assignments exist so that we can assess that learning is going on. Towards this end, these will always cover just a subsample of what we teach.

- **“I’m not a Geology major; how am I supposed to know these things?”** You aren’t expected to know the course material in advance. (If you already knew the subject, there wouldn’t be much point in taking a class!) I try to provide sufficient material to bring everyone up to speed on the subjects we cover. (And an aside: except for the subjects of rock formation, sedimentology, geologic time, plate tectonics, and fossilization, the material of this course is far outside what most Geology majors learn. In fact, if you master the details of this class, you will know more about this subject than most of the faculty in my Department!)
- **“I didn’t have time enough on the exam to look up the answer to every question.”** The goal of the exam is not to check your ability to look things up. Ideally you would do the entire exam without looking up any answers. You are provided with an exam review sheet in advance which lists the key concepts and materials you should understand for the exam; if you go into the exam knowing this material, you should be fine.

## Course Outline

<b>Date</b>	<b>Topic</b>
Aug. 26	Introduction to the Course: Behold the Mighty Dinosaur!
Aug. 28	The Science of Uncovering the Past
Aug. 30	“Fearfully Great Lizards”: The History of Dinosaur Studies <b>Pre-Course Survey Due</b>
Sept. 2	<b>LABOR DAY:</b> No class today
Sept. 4	Pages in the Book of Time: Sedimentary Rocks
Sept. 6	Bones in the Stones: Fossils & Fossilization
Sept. 9	Deep Time: How Old is that Fossil? <b>Nature of Science HW due</b>
Sept. 11	Fossils from the Field to the Museum
Sept. 13	The Living Earth: Plate Tectonics & Ecology
Sept. 16	Our Bodies, Our Selves: Introduction to Vertebrate Osteology <b>Geology HW due</b>
Sept. 18	Taxonomy & Species
Sept. 20	Evolution I: Descent with Modification
Sept. 23	Evolution II: Patterns & Processes; Systematics I: The Tree of Life <b>Anatomy &amp; Taxonomy HW due</b>
Sept. 25	Systematics II: Tree-Based Thinking
Sept. 27	Four on the Floor: Tetrapod Colonization of the Land



Sept. 30	Triassic Transitions & the Age of Reptiles  <b>Phylogeny HW due</b>  <b>MIDTERM EXAM I available 10/1-2</b>
Oct. 2	The Rise of the Dinosaurs: Good Genes or Good Luck?
Oct. 4	Thyreophora: Defense! Defense! Defense!
Oct. 7	Thescelosauridae and Ornithopoda: Beaks, Bills & Crests
Oct. 9	Marginocephalia: That's Using Your Head!
Oct. 11	Sauropodomorpha I: Dawn of the Thunder
Oct. 14	Sauropodomorpha II, Neosauropoda: Size Matters!  <b>Dinosaur Diversity I HW due</b>
Oct. 16	Theropoda I: Dinosaurs Red in Tooth and Claw
Oct. 18	Theropoda II, Coelurosauria: Tyrant Kings and Lesser Royals
Oct. 21	Theropoda III, Maniraptora: The Feathered Dinosaurs  <b>Dinosaur Diversity II HW due</b>
Oct. 23	Theropoda IV: Rise of Birds
Oct. 25	Theropoda V: Dinosaurs Take Flight
Oct. 28	The Worlds of the Dinosaurs; Dinosaurs Without Bones: Trace Fossil Analysis  <b>Dinosaur Diversity III HW due</b>
Oct. 30	Dinosaur Olympics: Locomotion and Dinosaurs in the World of Physics [LECTURE PRE-RECORDED; please watch on Panopto on ELMS]  <b>MIDTERM EXAM II 10/31-11/1</b>
Nov. 1	Flesh on the Bones: Reconstructing Dinosaur Soft-Tissue and Integument [LECTURE PRE-RECORDED; please watch on Panopto on ELMS]
Nov. 4	Through the Eyes of a Dinosaur: Dinosaur Brains & Senses
Nov. 5	<b><u>ELECTION DAY! Make sure to exercise your responsibility, and vote in the local, state, and national elections!</u></b>
Nov. 6	<i>Tyrannosaurus</i> Sex: Dinosaur Social Behavior
Nov. 8	Bringing Up Baby: Dinosaur Families and Growth
Nov. 11	Giants in the Earth: Dinosaur Size

	<b>Smithsonian Self-Guided Field Trip Project due online</b>
Nov. 13	The Hot-Blooded Dinosaurs
Nov. 15	So You Want to Be An Endotherm?
Nov. 18	Dinosaur Hearts and Lungs <b>Dinosaur Biology HW due</b>
Nov. 20	Life in the Fast Lane
Nov. 22	Dragons of the Sea & Air
Nov. 25	In the Shadow of the Dinosaurs: Mesozoic Mammals
Nov. 27-29	<b>THANKSGIVING RECESS: Enjoy your roasted maniraptoran</b>
Dec. 2	The Cretaceous/Paleogene Extinction I: All Good Things... <b>Denizens of the Mesozoic HW due</b>
Dec. 4	The Cretaceous/Paleogene Extinction II: Earth's Worst Day, Ever!
Dec. 6	The Cretaceous/Paleogene Extinction III: Dinosaur Apocalypse
Dec. 9	Dinosaurs in the Cenozoic: The Legacy of the Dinosaurs <b>Dinosaur Extinction HW due</b> <b>Post-Course Survey due</b>
Dec. 16-17	<b>FINAL EXAM online</b>

Note: This is a tentative schedule, and subject to change as necessary – monitor the course ELMS page for current deadlines. In the unlikely event of a prolonged university closing, or an extended absence from the university, adjustments to the course schedule, deadlines, and assignments will be made based on the duration of the closing and the specific dates missed.

## Resources & Accommodations

### Accessibility and Disability Services

The University of Maryland is committed to creating and maintaining a welcoming and inclusive educational, working, and living environment for people of all abilities. The University of Maryland is also committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the University, or be subjected to discrimination. The [Accessibility & Disability Service \(ADS\)](#) provides reasonable accommodations to qualified individuals to provide equal access to services, programs and activities. ADS cannot assist retroactively, so it is generally best to request accommodations several weeks before the semester begins or as soon as a disability becomes known. Any student who needs accommodations should contact me as soon as possible so that I have sufficient time to make arrangements.

For assistance in obtaining an accommodation, contact Accessibility and Disability Service at 301-314-7682, or email them at [adsfrontdesk@umd.edu](mailto:adsfrontdesk@umd.edu). Information about [sharing your accommodations with instructors, note taking assistance](#) and more is available from the [Counseling Center](#).

### Student Resources and Services

Taking personal responsibility for your own learning means acknowledging when your performance does not match your goals and doing something about it. I hope you will come talk to me so that I can help you find the right approach to success in this course, and I encourage you to visit [UMD's Student Academic Support Services website](#) to learn more about the wide range of campus resources available to you.

In particular, everyone can use some help sharpening their communication skills (and improving their grade) by visiting [UMD's Writing Center](#) and schedule an appointment with the campus Writing Center.

You should also know there are a wide range of resources to support you with whatever you might need ([UMD's Student Resources and Services website](#) may help). If you feel it would be helpful to have someone to talk to, visit [UMD's Counseling Center](#) or [one of the many other mental health resources on campus](#).

### Notice of Mandatory Reporting

Notice of mandatory reporting of sexual assault, sexual harassment, interpersonal violence, and stalking: As a faculty member, I am designated as a "Responsible University Employee," and I must report all disclosures of sexual assault, sexual harassment, interpersonal violence, and stalking to UMD's Title IX Coordinator per University Policy on Sexual Harassment and Other Sexual Misconduct.

If you wish to speak with someone confidentially, please contact one of UMD's confidential resources, such as [CARE to Stop Violence](#) (located on the Ground Floor of the Health Center) at 301-741-3442 or the [Counseling Center](#) (located at the Shoemaker Building) at 301-314-7651.

You may also seek assistance or supportive measures from UMD's Title IX Coordinator, Angela Nastase, by calling 301-405-1142, or emailing [titleIXcoordinator@umd.edu](mailto:titleIXcoordinator@umd.edu).

To view further information on the above, please visit the [Office of Civil Rights and Sexual Misconduct's](https://ocrsm.umd.edu) website at [ocrsm.umd.edu](https://ocrsm.umd.edu).

### Basic Needs Security

If you have difficulty affording groceries or accessing sufficient food to eat every day, or lack a safe and stable place to live, please visit [UMD's Division of Student Affairs website](#) for information about resources the campus offers you and let me know if I can help in any way.

## **Veteran Resources**

UMD provides some additional supports to our student veterans. You can access those resources at the office of [Veteran Student life](#) and the [Counseling Center](#). Veterans and active duty military personnel with special circumstances (e.g., upcoming deployments, drill requirements, disabilities) are welcome and encouraged to communicate these, in advance if possible, to the instructor.

## **Netiquette Policy**

Netiquette is the social code of online interactions. Students share a responsibility for the course's learning environment. Creating a cohesive online learning community requires learners to support and assist each other. To craft an open and interactive online learning environment, communication has to be conducted in a professional and courteous manner at all times, guided by common sense, collegiality and basic rules of etiquette.

## **Participation**

- Given the interactive style of this class, attendance will be crucial to note-taking and thus your performance in this class. Attendance is particularly important also because class discussion will be a critical component for your learning.
- Each student is expected to make substantive contributions to the learning experience, and attendance is expected for every session.
- Students with a legitimate reason to miss a live session should communicate in advance with the instructor, except in the case of an emergency.
- Students who miss a live session are responsible for learning what they miss from that session.
- Additionally, students must complete all readings and assignments in a timely manner in order to fully participate in class.
- Since we have the Questions of the Day each lecture, you should have a smartphone, tablet, or laptop available when you are in class. However, during classtime, please refrain from email, social media, online shopping, streaming videos, and other such communication outside the scope of the course, or from working on material for other courses. In other words, please restrict your computer use to the activities of THIS class.
- As part of the nature of the course, there will be a lot of memorization (less than a foreign language class, but more than that found in more mathematically-oriented introductory science classes). This will include lots of anatomical, geological, and paleontological terms, as well as evolutionary and temporal relationships. If you have difficulty memorizing, this may not be the class for you. Also, if there are words or concepts with which you are not familiar, feel free to ask Dr. Holtz (in class, after class, over email, etc.) for an explanation or clarification.

## **Course Evaluation**

Please submit a course evaluation through Student Feedback on Course Experiences in order to help faculty and administrators improve teaching and learning at Maryland. All information submitted to Course Experiences is confidential. Campus will notify you when Student Feedback on Course Experiences is open for you to complete your evaluations at the end of the semester. Please go directly to the [Student Feedback on Course Experiences](#) to complete your evaluations. By completing all of your evaluations each semester, you will have the privilege of accessing through Testudo the evaluation reports for the thousands of courses for which 70% or more students submitted their evaluations.

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