



COURSE OUTLINE

1. **Course:** GLGY 305, Introduction to Dinosaurs - Spring 2023

Lecture 01 : TR 09:00 - 10:50 in ENA 201

Instructor	Email	Phone	Office	Hours
Jennifer Lewis	jennifer.lewis2@ucalgary.ca			TBA

To account for any necessary transition to remote learning for the current semester, courses with in-person lectures, labs, or tutorials may be shifted to remote delivery for a certain period of time. In addition, adjustments may be made to the modality and format of assessments and deadlines, as well as to other course components and/or requirements, so that all coursework tasks are in line with the necessary and evolving health precautions for all involved (students and staff).

In Person Delivery Details:

Lecture and Tutorials are scheduled to meet in person in ENA 201. Lecture and Tutorial will utilize active learning strategies, including polling, trivia and Top Hat. Students should bring laptops and smart devices to class to participate.

Re-Entry Protocol for Labs and Classrooms:

To limit the spread of COVID-19 on campus, the University of Calgary has implemented safety measures to ensure the campus is a safe and welcoming space for students, faculty and staff. The most current safety information for campus can be found [here](#). **Online Delivery Details:**

This course is being offered online in real-time via scheduled meeting times, you are required to be online at the same time.

To help ensure Zoom sessions are private, do not share the Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published without the instructor's permission.

While our course is scheduled to meet in person during the Spring 2023 term, **two lectures (June 8 and June 13) will be presented synchronously online via Zoom**. Log in details for these Zoom sessions will be available in D2L. Students who are unable to attend these synchronous Zoom lectures will have access to view the recorded lectures asynchronously following the lecture session.

Course Site:

D2L: GLGY 305 T01-(Spring 2023)-Introduction to Dinosaurs

Top Hat: Join Code: 607108

Note: Students must use their U of C account for all course correspondence.

Note: Course updates, schedule changes and all other important information will be posted in the D2L website for this course. Students are responsible for checking D2L and UofC email regularly.

Equity Diversity & Inclusion:

The University of Calgary is committed to creating an equitable, diverse and inclusive campus, and condemns harm and discrimination of any form. We value all persons regardless of their race, gender, ethnicity, age, LGBTQIA2S+ identity and expression, disability, religion, spirituality, and socioeconomic status. The Faculty of Science strives to extend these values in every aspect of our courses, research, and teachings to better promote academic excellence and foster belonging for all.

2. **Requisites:**

See section [3.5.C](#) in the Faculty of Science section of the online Calendar.

3. Grading:

The University policy on grading and related matters is described in [F.1](#) and [F.2](#) of the online University Calendar.

In determining the overall grade in the course the following weights will be used:

Course Component	Weight	Due Date (duration for exams)	Modality for exams	Location for exams
Quizzes ¹	10%	Ongoing		
Top Hat Tutorials ²	25%	Ongoing		
Midterm Exam 1 ³	20%	Apr 23 2023 at 11:00 am (50 Minutes)	in-person	In Class
Midterm Exam 2 ⁴	20%	Jun 06 2023 at 11:00 am (50 Minutes)	in-person	In Class
Registrar Scheduled Final Exam ⁵	25%	Will be available when the final exam schedule is released by the Registrar	in person	Will be available when the final exam schedule is released by the Registrar

¹ These assessments review the course material presented in the course lectures and assigned textbook readings. Quizzes will become available in D2L on Monday morning and are due by 5 PM on Friday. These quizzes are auto-graded, are generated from a large test bank and are designed to provide you with multiple opportunities to practice and assess your comprehension of the topics covered. You are able to take the quizzes as many times as you choose before the due date. Your highest score from all attempts will be recorded in the gradebook.

² These application activities provide you an opportunity to apply the weekly topic/concepts to a series of problems. The tutorials will be completed in Top Hat. Tutorials will become available in Top Hat on Monday morning and are due by 5 PM on Friday. You are able to take the tutorials up to three times before the due date. Your highest score from all attempts will be recorded in the gradebook.

³ Midterm Exam 1 will cover lectures 1-5. Midterm Exam 1 will be administered in class during the scheduled Tutorial (11-11:50 AM).

⁴ Midterm Exam 2 will cover lectures 6-9. Midterm Exam 2 will be administered in class during the scheduled Tutorial (11-11:50 AM).

⁵ The Final Exam will be comprehensive. Approximately 25% of questions will cover lectures 1-5, 25% of questions will cover lectures 6-9 and 50% will cover lectures 10-13.

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

	A+	A	A-	B+	B	B-	C+	C	C-	D+	D
Minimum % Required	95 %	90 %	85 %	80%	75%	70 %	65 %	60%	55%	50 %	45 %

This course will have a Registrar Scheduled Final exam that will be delivered in-person and on campus. [The Final Examination Schedule](#) will be published by the Registrar's Office approximately one month after the start of the term. The final exam for this course will be designed to be completed within 2 hours.

The University of Calgary offers a [flexible grade option](#), Credit Granted (CG) to support student's breadth of learning and student wellness. Faculty units may have additional requirements or restrictions for the use of the CG grade at the faculty, degree or program level. To see the full list of Faculty of Science courses where CG is not eligible, please visit the following website: <https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade>

4. Missed Components Of Term Work:

The university has suspended the requirement for students to provide evidence for absences. Please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations.

In the event that a student legitimately fails to submit any online or in-person assessment on time (e.g. due to illness etc...), please contact the course coordinator, or the course instructor if this course does not have a coordinator to arrange for a re-adjustment of a submission date. Absences not reported within 48 hours will not be accommodated. If an excused absence is approved, one possible arrangement is that the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course. This option is at the discretion of the coordinator and may not be a viable option based on the design of this course.

Assignments for the week will be available in D2L and Top Hat on Monday mornings and are due on Fridays at 5

PM. The lowest quiz score and the lowest tutorial score will be automatically dropped for all students before final course grades are calculated.

5. **Scheduled Out-of-Class Activities:**

There are no scheduled out of class activities for this course.

6. **Course Materials:**

Recommended Textbook(s):

Fastovsky and Weishampel, *Dinosaurs A Concise Natural History, 4th edition*: Cambridge.

The D2L course includes an introductory video of the topics covered, suggested textbook readings, lecture slides and supplemental lecture videos. Students have access to these materials for the duration of the course. Materials are shared for student use only.

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam/Camera (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Stable internet connection.

For more information please refer to the UofC [ELearning](#) online website.

7. **Examination Policy:**

No aids are allowed on tests or examinations.

Students who utilize SAS for their exams are reminded to schedule their assessment at least a 7-days prior to the exam.

Students should also read the Calendar, [Section G](#), on Examinations.

8. **Approved Mandatory And Optional Course Supplemental Fees:**

There are no mandatory or optional course supplemental fees for this course.

9. **Writing Across The Curriculum Statement:**

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also Section [E.2](#) of the University Calendar.

10. **Human Studies Statement:**

Students will not participate as subjects or researchers in human studies.

See also [Section E.5](#) of the University Calendar.

11. **Reappraisal Of Grades:**

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. Non-academic grounds are not relevant for grade reappraisals. Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See [Section I.3](#) of the University Calendar.

- a. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **ten business days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall submit the Reappraisal of Graded Term work [form](#) to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections [I.1](#) and [I.2](#) of the University Calendar

- b. **Final Exam:**The student shall submit the request to Enrolment Services. See [Section 1.3](#) of the University Calendar.

12. Other Important Information For Students:

- a. **Mental Health** The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, [Mental Health Services Website](#)) and the Campus Mental Health Strategy website ([Mental Health](#)).
- b. **SU Wellness Services:** For more information, see their [website](#) or call [403-210-9355](#).
- c. **Sexual Violence:** The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support and information regarding sexual violence to all members of the university community. Carla can be reached by email ([svsa@ucalgary.ca](mailto:svs@ucalgary.ca)) or phone at [403-220-2208](#). The complete University of Calgary policy on sexual violence can be viewed [here](#).
- d. **Student Ombuds Office:** A safe place for all students of the University of Calgary to discuss student related issues, interpersonal conflict, academic and non-academic concerns, and many other problems.
- e. **Student Union Information:** [SU contact](#), Email your SU Science Reps: science1@su.ucalgary.ca, science2@su.ucalgary.ca, science3@su.ucalgary.ca,
- f. **Academic Accommodation Policy:**

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf>.

Students needing an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, by filling out the [Request for Academic Accommodation Form](#) and sending it to Brandon Karchewski by email brandon.karchewski@ucalgary.ca preferably 10 business days before the due date of an assessment or scheduled absence.

- g. **Misconduct:** Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional [Code of Conduct](#) and promote academic integrity in upholding the University of Calgary's reputation of excellence. Some examples of academic misconduct include but are not limited to: posting course material to online platforms or file sharing without the course instructor's consent; submitting or presenting work as if it were the student's own work; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; borrowing experimental values from others without the instructor's approval; falsification/fabrication of experimental values in a report. Please read the following to inform yourself more on academic integrity:

[Student Handbook on Academic Integrity](#)
Student Academic Misconduct [Policy](#) and [Procedure](#)
[Faculty of Science Academic Misconduct Process](#)
[Research Integrity Policy](#)

Additional information is available on the [Student Success Centre Academic Integrity page](#)

- h. **Copyright of Course Materials:** All course materials (including those posted on the course D2L site, a course website, or used in any teaching activity such as (but not limited to) examinations, quizzes, assignments, laboratory manuals, lecture slides or lecture materials and other course notes) are protected by law. These materials are for the sole use of students registered in this course and must not be redistributed. Sharing these materials with anyone else would be a breach of the terms and conditions governing student access to D2L, as well as a violation of the copyright in these materials, and may be pursued as a case of

student academic or [non-academic misconduct](#), in addition to any other remedies available at law.

- i. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). Students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information, see [Legal Services](#) website.
- j. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction ([USRI](#)) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference - please participate in these surveys.

What will you learn in this course?

The goal of GLGY 305 Introduction to Dinosaurs is to gain an understanding of key scientific concepts including plate tectonics, geologic time and evolution. We will use dinosaurs to understand that the Earth has a long history, has landscapes and features that have changed due to plate tectonics, how evolution creates new species and how species are related to each other. Upon completion of this course, you will be able to:

- Explain how paleontologists use the scientific method to learn new things about dinosaurs.
- Use plate tectonic theory to describe how the Earth looked like during the Mesozoic.
- Identify the geologic time periods when different dinosaur groups were alive.
- Explain how new species evolve.
- Identify the taxonomic relationships between different dinosaur groups.
- Discuss the habits and traits of different dinosaur groups based on evidence from their fossils.
- Summarize what is known about the paleobiology of dinosaurs using evidence from the fossil record.
- Explain what happened to the dinosaurs at the end of the Mesozoic.

Course Schedule and Due Dates:

Week	Date	Lecture/Tutorial Description	Assignment Due Fridays @ 5PM
1	4-May	Lecture: Course Introduction & Plate Tectonics: Where did dinosaurs live?	Course Orientation Quiz Plate Tectonics Quiz
		Tutorial: Course & Tutorial Introduction	Practice Tutorial
2	9-May	Lecture: Geologic Time & Mesozoic Climates	Geo Time & Climate Quiz
		Tutorial: Plate Tectonics Tutorial	Tutorial 1
	11-May	Lecture: Making and Finding Fossils	Making & Finding Fossils Quiz
		Tutorial: Field Work Prep 1 Tutorial	Tutorial 2
3	16-May	Lecture: Evolutionary Relationships	Evolutionary Relationships Quiz
		Tutorial: Field Work 1 Tutorial	Tutorial 3
	18-May	Lecture: Who are the Dinosaurs?	Dinosaur Diversity Quiz
		Tutorial: Who Owns the Bones?	Tutorial 4

4	23-May	Lecture: Who are the Sauropodomorpha?	Sauropodomorpha Quiz
		Tutorial: Midterm Exam 1	Completed in class
	25-May	Lecture: Who are the Theropoda?	Theropoda Quiz
		Tutorial: What Did <i>T.Rex</i> Taste Like?	Tutorial 5
5	30-May	Lecture: Who are the Ornithischians?	Ornithischia Quiz
		Tutorial: Dinosaur-ganization	Tutorial 6
	1-June	Lecture: Who are the Thyreophorans?	Threophora Quiz
		Tutorial: Dinosaur Speed	Tutorial 7
6	6-June	Lecture: Who are the Marginocephalians?	Marginocephalia Quiz
		Tutorial: Midterm Exam 2	Completed in class
	8-June	Zoom Lecture: Who are the Ornithopods?	Ornithopoda Quiz
		Tutorial: Dinosaur Skulls	Tutorial 8
7	13-June	Zoom Lecture: Paleobiology: Dinosaur Growth & Metabolism	Paleobiology Quiz
		Tutorial: Thermoregulation	Tutorial 9
	15-June	Lecture: What Happened to the Dinosaurs?	K-Pg Extinction Quiz
		Tutorial: Dinosaur Mass	Tutorial 10
8	19-June	Final Exam Week - Scheduled by Registrar (Date TBD)	
	20-June		
	21-June		

*Note: Lecture Schedule Subject to Change

Electronically Approved - May 03 2023 09:44

Department Approval