ORIGINAL COURSE IMPLEMENTATION DATE: January 2018

REVISED COURSE IMPLEMENTATION DATE:

COURSE TO BE REVIEWED: (six years after UEC approval) October 2023

Course outline form version: 09/15/14

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: GEOG 117	**Number of Credits:** 3 Course credit policy (105)
Course Full Title: Dinosaurs **Course Short Title (if title exceeds 30 characters):**	
Faculty: Faculty of Social Sciences	**Department (or program if no department):** Geography and the Environment

Calendar Description:

This course will investigate the role that the historical geography and geology had on the rise, evolution, and fall of dinosaurs during the Mesozoic (252 million to 65 million years ago).

Note: Field trips outside of class time may be required. Please refer to the department website for field trip scheduling information.

Prerequisites (or NONE):	None.
Corequisites (if applicable, or NONE):	
Pre/corequisites (if applicable, or NONE):	

Equivalent Courses (cannot be taken for additional credit)

Former course code/number:

Cross-listed with:

Equivalent course(s):

Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.

Transfer Credit

Transfer credit already exists: ☐ Yes ☒ No

Transfer credit requested (OReg to submit to BCCAT):
☒ Yes ☐ No (if yes, fill in transfer credit form)

Resubmit revised outline for articulation: ☐ Yes ☒ No

To find out how this course transfers, see **bctransferguide.ca**.

Total Hours: 45

Typical structure of instructional hours:

Lecture hours	30
Seminars/tutorials/workshops	15
Laboratory hours	
Field experience hours	
Experiential (practicum, internship, etc.)	
Online learning activities	
Other contact hours:	
Total	**45**

Special Topics

Will the course be offered with different topics?
☐ Yes ☒ No

If yes, different lettered courses may be taken for credit:
☐ No ☐ Yes, repeat(s) ☐ Yes, no limit

Note: The specific topic will be recorded when offered.

Maximum enrolment (for information only): 36

Expected frequency of course offerings (every semester, annually, every other year, etc.): annually

Department / Program Head or Director: Steven Marsh	**Date approved:**	September 2017
Faculty Council approval	**Date approved:**	September 8, 2017
Campus-Wide Consultation (CWC)	**Date of posting:**	October 13, 2017
Dean/Associate VP: Jacqueline Nolte	**Date approved:**	September 8, 2017
Undergraduate Education Committee (UEC) approval	**Date of meeting:**	October 27, 2017

Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Demonstrate competence in basic stratigraphic skills.
2. Distinguish between the major groups of dinosaurs.
3. Describe changes in paleogeography and its relationship to the spatial distribution and occurrence of dinosaur fossils.
4. Explain the paleoenvironments of dinosaurs utilizing basic stratigraphic principles.
5. Articulate how scientists are able to infer dinosaur behavior from fossils and trackways.
6. Describe the use of the scientific method to reconstruct the paleogeography of the Mesozoic.
7. Explain the ethical issues faced when conducting scientific research into the time of the Mesozoic.
8. Articulate the scientific theories used to explain the demise of the dinosaurs.
9. Communicate geographic concepts using various scientific techniques (written, numeric, spatial, and oral).
10. Critically reflect upon their learning from in-class discussions, lectures, and class assignments.

Prior Learning Assessment and Recognition (PLAR)

☒ Yes ☐ No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

This course typically includes lectures, assigned readings, discussion groups, films, use of online resources, assignments, field trips, and guest lectures.

Grading system: Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

	Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1.	Lucas	Dinosaurs: The Textbook	☐	McGrawHill	2007
2.	Wicander & Monroe	Historical Geology: Evolution of Earth and Life Through Time	☐	Brooks Cole	2016
3.			☐		
4.			☐		
5.			☐		

Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)

Typical Evaluation Methods and Weighting

Final exam:	20%	Assignments:	40%	Midterm exam:	%	Practicum:	%
Quizzes/tests:	20%	Lab work:	%	Field experience:	%	Shop work:	%
Reflective Journal:	20%	Other:	%	Other:	%	Total:	100%

Details (if necessary):

Typical Course Content and Topics

1. Introduction to course.
2. Unravelling geologic time.
3. Paleogeography and plate tectonics
4. Climates of the Mesozoic.
5. The fossil record.
6. What is a dinosaur?
7. The Triassic and rise of the dinosaurs.
8. Jurassic Park
9. The height of the dinosaurs – the Cretaceous.
10. Non-dinosaurs during the Mesozoic.
11. Behaviour of dinosaurs.
12. The fall of dinosaurs and the rise of mammals.