



ORIGINAL COURSE IMPLEMENTATION DATE: January 2018  
 REVISED COURSE IMPLEMENTATION DATE: January 2019  
 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.

<b>Course Code and Number:</b> GEOG 117		<b>Number of Credits:</b> 3 <a href="#">Course credit policy (105)</a>																	
<b>Course Full Title:</b> Dinosaurs <b>Course Short Title (if title exceeds 30 characters):</b>																			
<b>Faculty:</b> Faculty of Social Sciences		<b>Department (or program if no department):</b> Geography and the Environment																	
<b>Calendar Description:</b> <p>Investigates the role that historical geography and geology had on the rise, evolution, and fall of dinosaurs during the Mesozoic (252 million to 65 million years ago).</p> <p>Note: Field trips outside of class time may be required. Please refer to the department website for field trip scheduling information.</p>																			
<b>Prerequisites (or NONE):</b>		None.																	
<b>Corequisites (if applicable, or NONE):</b>																			
<b>Pre/corequisites (if applicable, or NONE):</b>																			
<b>Equivalent Courses (cannot be taken for additional credit)</b> Former course code/number: Cross-listed with: Equivalent course(s): <i>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.</i>		<b>Transfer Credit</b> Transfer credit already exists: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Transfer credit requested (OREg to submit to BCCAT): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (if yes, fill in transfer credit form) Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> .																	
<b>Total Hours: 45</b> <b>Typical structure of instructional hours:</b> <table border="1"> <tr> <td>Lecture hours</td> <td>30</td> </tr> <tr> <td>Seminars/tutorials/workshops</td> <td>15</td> </tr> <tr> <td>Laboratory hours</td> <td></td> </tr> <tr> <td>Field experience hours</td> <td></td> </tr> <tr> <td>Experiential (practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Online learning activities</td> <td></td> </tr> <tr> <td>Other contact hours:</td> <td></td> </tr> <tr> <td><b>Total</b></td> <td><b>45</b></td> </tr> </table>		Lecture hours	30	Seminars/tutorials/workshops	15	Laboratory hours		Field experience hours		Experiential (practicum, internship, etc.)		Online learning activities		Other contact hours:		<b>Total</b>	<b>45</b>	<b>Special Topics</b> Will the course be offered with different topics? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, different lettered courses may be taken for credit: <input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit <i>Note: The specific topic will be recorded when offered.</i>	
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Other contact hours:																			
<b>Total</b>	<b>45</b>																		
		<b>Maximum enrolment (for information only):</b> 36 <b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> annually																	
<b>Department / Program Head or Director:</b> Steven Marsh		<b>Date approved:</b> May 2018																	
<b>Faculty Council approval</b>		<b>Date approved:</b> May 11, 2018																	
<b>Campus-Wide Consultation (CWC)</b>		<b>Date of posting:</b> n/a																	
<b>Dean/Associate VP:</b> Jacqueline Nolte		<b>Date approved:</b> May 11, 2018																	
<b>Undergraduate Education Committee (UEC) approval</b>		<b>Date of meeting:</b> September 28, 2018																	

**Learning Outcomes**

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

1. Apply basic stratigraphic skills to geological problems.
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. Evaluate scientific methodologies to infer dinosaur behavior from fossils and trackways.
5. Apply the scientific method to reconstruct the paleogeography of the Mesozoic.
6. Explain the ethical issues faced when conducting scientific research into the time of the Mesozoic.
7. Evaluate the scientific theories used to explain the demise of the dinosaurs.
8. Communicate geographic concepts using various scientific techniques (written, numeric, spatial, and oral).
9. 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	6 <sup>th</sup> <input type="checkbox"/>	Columbia University Press	2016
2. Wicander & Monroe	Historical Geology: Evolution of Earth and Life Through Time	<input type="checkbox"/>	Brooks Cole	2016
3. D. Fastovsky and D. Weishampel	Dinosaurs. A Concise Natural History	3 <sup>rd</sup>	Cambridge University Press	2016
4.		<input type="checkbox"/>		
5.		<input type="checkbox"/>		

**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.