Course Description:
The origin and diversification of dinosaurs, including birds. A survey of evolutionary relationships within the group, and between the major groups of vertebrates. Broad introduction including anatomy, geography, climate, and vertebrate contemporaries.

Location & Time:
IV Theater #1, Mondays and Wednesdays @ 8:00-9:15 am.

Professor:
Susannah Porter
Office: Webb Hall (Geological Sciences) Rm. 1117
Phone: x8954
E-mail: porter@geol.ucsb.edu
Office Hours: Wednesdays 10:00-11:00 am or by appointment.

Labs:
All sections meet in Physical Sciences Building South, Room 2725.
For more information about labs, see Lab syllabus handout.

TA contacts:
Head TA: John Moore (dinosaurTA@gmail.com)

TA list and contacts:
• Jennifer Bradham (jbradham@umail.ucsb.edu)
• Michele Conrad (mconrad@umail.ucsb.edu)
• Graham Hagen-Peter (ghagenpeter@umail.ucsb.edu)
• John Moore (jlmoore@umail.ucsb.edu)
• Bryan Murray (bmurray@umail.ucsb.edu)

Note: location, day, and time of TAs' office hours will be announced in your lab section.

Textbook:

The textbook is recommended but not required.


Lab "Manual": Download lab exercises from the course website.
Basis for Course Grade:

- Midterm I 20%
- Midterm II 20%
- Final 35%
- Lab 25%

Grading Policies & General Suggestions

- Midterms and Final may be curved (up) if the mean score is lower than 77%. Lab grades will be standardized for each TA, so no need to worry if your TA happens to be a more stringent grader than your friend's TA.

- If you need to take the midterm or final at a different time, you must contact Professor Porter before the day of the exam or, preferably, earlier to see about taking a makeup. If you do not contact me beforehand, permission to make up missed exams will only be given if there is a documented excuse (e.g., you were sick that morning and have a note from your doctor).

- Remember that if you take the class Pass/No Pass a C- is a failing grade, so be careful when you decide to sign up for P/NP.

- I do not give extra credit. And I do have sympathy for seniors who are just trying to get their last few credits to graduate and they have failed my class and only need a few more points to pass....but I still won't change your grade. Sorry.

- Finally, if you are struggling with the class or with other things in your life, please come and see me (either at office hours or by appt.). We can try to work something out, and I can give you some pointers as to how best to study the material. Believe it or not, it means a lot to professors to know that you care enough to get in touch and ask for help.
# Class Schedule

*Caveat: the following is an outline of intent, not a promise. Lecture topics may change or the order may be rearranged.*

## WEEK 1

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture</th>
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<tbody>
<tr>
<td>Sept 27</td>
<td>Lecture 1: Introduction to Dinosaurs</td>
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<tr>
<td>Sept 29</td>
<td>Lecture 2: Science, and Deep Time</td>
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## WEEK 2

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<tr>
<th>Date</th>
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<tbody>
<tr>
<td>Oct 4</td>
<td>Lecture 3: The Fossil Record and Age Determination</td>
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<tr>
<td>Oct 6</td>
<td>Lecture 4: Evolution and the Organization of Life</td>
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## WEEK 3

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<tr>
<th>Date</th>
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<tbody>
<tr>
<td>Oct 11</td>
<td>Lecture 5: Dinosaurs in Context: Vertebrate Evolution I</td>
</tr>
<tr>
<td>Oct 13</td>
<td>Lecture 6: Vertebrate Evolution II</td>
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## WEEK 4

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<tr>
<th>Date</th>
<th>Lecture</th>
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<tbody>
<tr>
<td>Oct 18</td>
<td>MIDTERM I</td>
</tr>
<tr>
<td>Oct 20</td>
<td>Lecture 7: The Rise of Dinosaurs</td>
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## WEEK 5

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<th>Date</th>
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<tbody>
<tr>
<td>Oct 25</td>
<td>Lecture 8: Ornithischians I: The Armored Dinosaurs</td>
</tr>
<tr>
<td>Oct 27</td>
<td>Lecture 9: Ornithischians II: Ornithopods and Pachycephalosaurs</td>
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## WEEK 6

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<th>Date</th>
<th>Lecture</th>
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<tbody>
<tr>
<td>Nov 1</td>
<td>NO LECTURE</td>
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<tr>
<td>Nov 3</td>
<td>Lecture 10: Plate Tectonics (Guest Lecturer: Prof. Tanya Atwater)</td>
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</tbody>
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WEEK 7  LAB 6: Saurischians I: Sauropodomorphs*
Nov 8  Lecture 11: Ornithischians III: Ceratosians; and Saurischians I: Sauropodomorphs
Nov 10 Lecture 12: Saurischians II: Theropods

* Thursday, Nov. 11th is a holiday. We will still hold labs that day, but attendance is optional. Students in Thursday’s lab may instead choose another lab to attend that week. Although you usually need to contact the head TA if you would like to attend another lab section, you do not need to do so this week.

WEEK 8  LAB 7: Saurischians II: Theropoda
Nov 15 MIDTERM II
Nov 17 Lecture 13: Saurischians III: Maniraptors

WEEK 9  THANKSGIVING WEEK: NO LABS
Nov 22 Lecture 14: Saurischians IV: The Origin of Birds
Nov 24 Lecture 15: Dinosaur Contemporaries

WEEK 10  LAB 8: Modern Dinosaurs

*Optional makeup lab, Plate Tectonics, due in lab this week (see lab syllabus for more details)
Nov 29 Lecture 16: Dinosaur World
Dec 1 Lecture 17: The Extinction of the Dinosaurs

Final Exam: Saturday, December 11, 8-11 am, IV Theater #1