

## Earth and Planetary Sciences 203 Introduction to Teaching Seminar

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<b>Office:</b>	EMS A360
<b>Office Hours:</b>	Wednesday & Friday: 11-12 or by appt.
<b>Class:</b>	Monday, 1:00-3:00pm, D250

### Course Goals:

1. To help you to become a confident and effective teacher.
2. To provide you with experience teaching and designing lessons.
3. To introduce you to department and campus teaching resources.

**Readings:** I will assign one or more short readings each week, which we will discuss in class. After you read the article(s) each week, you are responsible for posting a 1–2 paragraph response about the content on the class Canvas discussion board. This response can be either a new thread or a reply to someone else’s post. Responses are due by 1:00pm Sunday; I need time to read each post and prepare for discussion before class. Responses will be graded on a check-minus, check, check-plus scale.

**Assignments:** Each week, you will also have a practical assignment relating to the actual work you will be doing as a TA. Depending on the week, this will either be a Design Practical (design a worksheet or homework) or Teaching Practical (plan and deliver a mini-lecture to your classmates). You will receive specific feedback from me (and your peers) on these assignments, and they will also be graded on a check-minus, check, check-plus scale.

**Late Policy:** Assignments are due at the start of class. Normally, I would state the penalty for late assignments here (e.g., 10% per day, no credit after 1 week), but this is a S/U course. Turn your work in on time.

**Grading/Passing:** Please register for Eart203 as S/U. Final grades will be based on attendance, class participation, and assignments. Everyone is expected to attend every class and complete all assignments on time. Because this course has only 5 sessions, I cannot pass anyone who misses more than one class.

**Academic Honesty:** The work you turn in must be your own. Normally I would make a statement about properly citing work, but that doesn’t really apply to this course.

**Special needs:** I am committed to creating an academic environment that supports everyone in the diverse student body at UCSC. If you are a student with a disability who requires accommodations to achieve equal access in this course, please submit your Accommodation Authorization Letter from the Disability Resource Center (DRC) to me privately during my office hours or by appointment, preferably within the first two weeks of the quarter. At this time, I would also like us to discuss ways we can ensure your full participation in the course. I encourage all students who may benefit from learning more about DRC services to contact DRC by phone at [831-459-2089](tel:831-459-2089) or by email at [drc@ucsc.edu](mailto:drc@ucsc.edu).

*(Text taken from the DRC website.)*

Date	Reading (due before class)	Class Topics	Homework (assigned for next week)
Oct. 7	<p><i>Tools for teaching: First day of class</i></p> <p><i>Increasing diversity in the geosciences</i></p>	<p><b>First day: Setting the tone</b></p> <ul style="list-style-type: none"> <li>▪ What is your job as a TA?</li> <li>▪ First day of section/lab</li> <li>▪ Running section/lab</li> <li>▪ Why teach well?</li> </ul> <p>Guests: GEODES &amp; UAW</p>	<p>Teaching practical 1 (5 min)</p> <ul style="list-style-type: none"> <li>- fun subject</li> <li>- make it engaging</li> </ul> <p><i>Present outside class:</i> <b>October 15/16/17</b></p>
Oct. 14	<p><i>Tools for teaching: Chalkboards</i></p> <p><i>Do students really have different learning styles?</i></p> <p><i>Designing effective and innovative courses 2.2</i></p>	<p><b>Teaching strategies; learning styles</b></p> <ul style="list-style-type: none"> <li>▪ Board work</li> <li>▪ How to lead office hours</li> <li>▪ Learning styles</li> <li>▪ Teaching strategies</li> <li>▪ Inclusive classrooms</li> </ul>	<p>Teaching practical 2 (10 min)</p> <ul style="list-style-type: none"> <li>- subject you will teach</li> <li>- challenge yourself</li> </ul> <p><i>Present outside class:</i> <b>October 29/30/31</b></p>
Oct 21.	Catch up week for those of you attending the field trip 10/18 – 10/20!		
Oct. 28	<p><i>Understanding by design (video)</i> <a href="https://www.youtube.com/watch?v=4isSHf3SBuQ">https://www.youtube.com/watch?v=4isSHf3SBuQ</a></p> <p><i>Empowering Students: The 5E Model Explained</i></p>	<p><b>Designing a lesson/activity</b></p> <ul style="list-style-type: none"> <li>▪ Designing worksheets</li> <li>▪ Backwards design</li> <li>▪ The 5E Model</li> <li>▪ Setting learning goals</li> <li>▪ Worksheet activity</li> </ul> <p>Guest: Library resources</p>	<p>Design practical:</p> <ul style="list-style-type: none"> <li>- 1 pg worksheet</li> <li>- Use Backwards Design and the 5E Model</li> </ul> <p><i>Due in class: November 4</i></p>
Nov. 4	<p><i>The secret to raising smart kids</i></p> <p><i>The power of passion and perseverance (video)</i> <a href="http://www.ted.com/talks/angela_lee_duckworth_grit_the_power_of_passion_and_perseverance#t-353787">http://www.ted.com/talks/angela_lee_duckworth_grit_the_power_of_passion_and_perseverance#t-353787</a></p>	<p><b>Giving feedback to students</b></p> <ul style="list-style-type: none"> <li>▪ Growth mindset</li> <li>▪ Teaching math</li> <li>▪ Grading: helpful feedback</li> <li>▪ Dealing with cheating</li> <li>▪ Soliciting feedback</li> </ul> <p><u>Peer review worksheets</u></p>	<p>Teaching practical 3 (10 min)</p> <ul style="list-style-type: none"> <li>- improve/revise practical 2</li> <li>- incorporate something new</li> </ul> <p><i>Present outside class:</i> <b>November 12/13/14</b></p>
Nov. 11	<p><i>Motivating Students</i></p>	<p><b>The miscellaneous</b></p> <ul style="list-style-type: none"> <li>▪ Review: Effective teaching</li> <li>▪ TAing field courses</li> <li>▪ Further resources</li> </ul> <p><u>TA Panel</u></p>	<p>Design practical:</p> <ul style="list-style-type: none"> <li>- Revise worksheet</li> <li>- Expand lesson</li> </ul> <p><i>Due by Email: 11/18</i></p>