

# LECTURE SYLLABUS

## GEL 1: THE EARTH, WINTER 2017

**Dr. Dylan Spaulding**

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Office Hours: Monday 1:00-2:00 & Wednesday 2:00-3:00, EPS 1348

Textbook: *Physical Geology Today*, Nance & Murphy, 2016, 1<sup>st</sup> ed.

*We'll try to stay as close to this schedule as possible, but be ready for evolving dates and topics (except for exams, of course).*

*Read the textbook strategically – I'll give you tips and suggestions about how to use the book in class. The specific sections to read in the textbook may evolve as the quarter. Check the online notes I provide for the updated and accurate sections in the textbook, listed toward the top of each set of notes.*

*Occasionally, I will provide some additional reading from online sources or will post PDF's to the course Canvas site. As we go, I'll let you know when to keep your eyes out and what it's for.*

<b>Week of:</b>	<b>Lecture Topic:</b>	<b>Textbook</b>
Jan 9 - Jan 13	Introduction; Foundations; Building the Earth and Exoplanets	Sections 1.6-1.9
Jan 16 - Jan 20	Building the Earth (cont.); Plate Tectonics: Part I - Making and Breaking Continents	2.1 - 2.5
Jan 23 - Jan 27	Plate Tectonics: Part II - The Dynamic Earth	9.3 - 9.8
Jan 30 – Feb 3	Minerals and Rocks: Atomic to Planetary Scale	3.2, 3.6, 3.7
Feb 6 – Feb 10	Deep Beneath Volcanoes	4.1 - 4.3, 9.2
Feb 10	Midterm (50 minutes, in class, bring Scantron 2000)	
Feb 13 - Feb 17	Volcanism - Igneous Processes	4.6 - 4.7
Feb 20 - Feb 24	Earthquakes & Earth's Interior	11.1-11.5
Feb 27 - Mar 3	Telling Time: Sedimentation, Age Dating	6.1-6, 8.1, 8.3, 8.5-8.9
Mar 6 – Mar 10	End of the Oil Age?	19.1-19.3
Mar 13 - Mar 17	Global Change and the Anthropocene	15.1, 15.4, 20.1-20.5, 20.8
March 23	Final Exam – 8:00-10:00 AM (cumulative, bring Scantron 2000)	