

## Lecture syllabus - GEL 1: The Earth - Fall 2017

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Office: Earth & Physical Sciences (EPS), room 3224

Office Hours: Monday 1:00-2:00 & Wednesday 2:00-3:00

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 progresses. Check the online notes I provide for the updated and accurate sections in the textbook, listed toward the top of each set of notes.*

*Please read and use the class Canvas site as much as possible.*

| <b>Week of:</b>   | <b>Lecture Topic:</b>   | <b>Textbook</b>                          |
|-------------------|---|--|
| 9/27 – 10/2       | Introduction; How Planets Form; Inside the Earth                | Sections<br>1.6-1.9                      |
| 10/4 - 10/9       | Plate Tectonics:<br>Mapping the Seafloor & Divergent Boundaries | 2.1, 2.3, 9.1, 2.5,<br>9.3, 9.4          |
| 10/11 – 10/16     | Plate Tectonics: Convergent & Transform Boundaries              | 2.4, 9.5, 9.6, 9.7,<br>9.8               |
| <b>10/18</b>      | <b>Midterm 1</b> (50 minutes, bring Scantron 2000)              |  |
| 10/20 - 10/25     | Minerals & Rocks  | 3.2, 3.6, 3.7                            |
| 10/27– 10/30      | Deep Beneath Volcanoes  | 4.1, 4.2, 4.3, 9.2                       |
| 11/1 - 11/6       | Volcanism   | 4.6-4.7                                  |
| 11/8 - 11/17      | Earthquakes & Earth's Interior                                  | 11.1-11.5                                |
| <b>11/20</b>      | <b>Midterm 2</b> (50 minutes, bring Scantron 2000)              |  |
| 11/22 - 11/29     | Sedimentation; Deep Time; Age-dating                            | 6.1, 6.4, 6.5, 8.1,<br>8.3, 8.4, 8.6-8.8 |
| 12/1 - 12/4       | Energy Resources: The Age of Oil                                | 19.1, 19.2, 19.3                         |
| 12/6 - 12/8       | Glaciers, Ice Ages, & Climate Change                            | 15.1, 15.4, 20.1-<br>20.5, 20.8          |
| <b>Mon. 12/11</b> | <b>Final Exam</b> – 8:00-10:00 AM (comprehensive, scantron)     |  |