

# GEL 2 – Earth System Science - Winter 2017

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Office: Earth & Physical Sciences Bldg., room 3224

Office Hours: Monday 10:00-11:00 & Wednesday 1:00-2:00

**Please read the GEL2 Canvas site closely for more detail on the course.**

<u>Dates</u>	<u>Lecture Topic</u>	<u>Reading</u>
Jan 9 – Jan 13	Introduction to Earth System Science; the Anthropocene	Ch. 1
Jan 16	MLK Day – no class	
Jan 18 – Jan 20	How Earth Works: Cycles, Feedback Loops, Temperature	Ch. 1, 2
Jan 23 – Jan 27	Geosphere: Earth Interior, Tectonics, Birth of Oceans	Ch. 5, 6
Jan 30 – Feb 1	Geosphere: Volcanism, Weathering, Pedosphere	Ch. 5, 15, 17
<b>February 3</b>	<b>Midterm 1 (50 min.)</b>	
Feb 6 – Feb 10	Atmosphere: Composition, Structure, Circulation	Ch. 11, 12
Feb 13 – Feb 17	Hydrosphere: Ocean Origin, Currents, Circulation	Ch. 8
Feb 20	President’s Day – no class	
Feb. 22 – Feb 27	Hydrosphere: Freshwater Systems, Cryosphere	Ch. 8, 9
<b>March 1</b>	<b>Midterm 2 (50 min.)</b>	
Mar 3 – Mar 8	Biosphere: History of Life, Biogeochemical Cycles	Ch. 14, 15
Mar 10 – Mar 17	Global Climate Change, Anthropocene Revisited	Ch. 13, 19
<b>March 23 – Thursday, 10:30-12:30 PM – Final exam (comprehensive)</b>		

10 classes, then midterm 1

9 classes, then midterm 2

7 classes, then final exam

28 class days & 2 holidays