



## Schedule of Topics and Reading Materials for ES 454/554

<u>WEEK</u>	<u>DATE</u>	<u>LECTURE TOPICS</u> (may be modified)	<u>READING</u>
1	4/3 and 4/5	Course Overview/Intro. to Volcanology Volcanism and Plate Tectonics	<b>BM:</b> Introduction (ix-xvii) <b>CW:</b> Ch. 1 (3-5; 8-10) <b>BM:</b> Ch. 11 (187-199) <b>CW:</b> Ch. 15 (445-446)
2	4/10 and 4/12	Chemical and Physical Properties of Magma	<b>BM:</b> Parts of Chs. 1, 2, 3 (pp. tba) <b>CW:</b> Ch. 2
3	4/17 and 4/19	Lava Flows: Factors Influencing Morphology	<b>BM:</b> Chs. 5+6 <b>CW:</b> Ch. 4
4	4/24 and 4/26	Lava Flows: Features of Mafic, Intermediate, and Silicic Flows Submarine Volcanism	<b>BM:</b> Chs. 5+6; <b>CW:</b> Ch. 4 <b>CW:</b> Ch. 4 (73-76; 88-89) <b>BM:</b> Ch. 9 (143-154)
5	5/1 and 5/3	<i>Class to be announced</i> <b>Midterm Exam:</b> Wednesday, May 3	
6	5/8 and 5/10	Fragmentation of Magma and the Formation of Volcaniclastic Deposits	<b>BM:</b> Ch. 7 (101-107); <b>CW:</b> Ch. 3
7	5/15 and 5/17	Introduction to Pyroclastic Rocks	<b>BM:</b> Ch. 7 (97-100); <b>CW:</b> Ch. 5
	<b>May 19-21</b>	<b>Required</b> Field Trip to Central Oregon	
8	5/22 and 5/24	Pyroclastic Fall Deposits and Eruptions	<b>BM:</b> Ch. 7 (107-121); <b>CW:</b> Ch. 6
9	5/29 and 5/31	<b>Volcano Research Projects due May 31</b> <i>Poster Presentations during Academic Excellence Showcase Event</i>	
10	6/5 and 6/7	Pyroclastic Flow and Surge Deposits Ash-flow Tuffs	<b>BM:</b> Ch. 8 (most); <b>CW:</b> Chs. 7+8
<b>Finals</b>	6/12-6/16	<b>Final Exam (Comprehensive)</b>	Mon., June 12, 4:30 pm