

Earth & Planetary Sciences 438
Advanced Topics in Geophysics
Topic: Mars: Life, Tectonics and Exploration
Winter Quarter 2017

M 1-3:20, W 2:30-3:20PM
Tech F380

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Office hours: M,W 1-2PM; F 2-3PM

Class Website: <http://lunar.earth.northwestern.edu/courses/438>

Text:

Mars: An Introduction to its Interior, Surface and Atmosphere,
Nadine G. Barlow, Cambridge, 264pp., 2008. (shelf F380)

Additional Readings:

Mars, ed. by H. H. Kieffer et al. (with 114 collaborating authors),
U. of Arizona Press, 1455 pp., 1992. (shelf, F380 with other books)

journal articles

Grades will be assigned on basis of independent project, presentations, final paper.

Winter Quarter 2017 - Schedule

Date	Topics	Chapter
January		
T,W 3,4	Mars: Introduction	
M 9	Orbit, Formation	C1,2
M 16	MLK Day, No Class	
M 23	Interior structure, geophysical measurements	C3
M 30	Surface and Tectonics, Geology	C4,5
February		
M 6	Water, Atmosphere, Climate	C6,7
M 13	Life on Mars?	C8
M 20	Mars Missions: Past, Ongoing, Planned	
M 27	Presentations	
March		
M 6	Presentations	
W 8	Seminar wrap up, Presentations	
W-F 8-10	WCAS Reading Period	
M 13	Project papers due; Exam week	