

TENTATIVE SCHEDULE FOR SPRING 2013			
Date		Topic	Required Reading
Jan 7	Lecture 1	<i>Introductory survey</i>	
Jan 14	Lecture 2	<i>Fundamentals of aerosols and clouds: sources, properties and processes</i>	Ch 3,4
Jan 21		SCHOOL HOLIDAY	
Jan 28	Lecture 3	<i>Observations of aerosol and clouds</i>	Ch 3, 4,
Feb 4	Lecture 4	<i>Spatial and temporal variability of aerosol and clouds. Challenges and future directions for observing aerosol and clouds.</i>	Ch 3, 4, 6
Feb 11	Lecture 5	<i>Representation of aerosol and clouds in models</i>	Ch 20, 23
Feb 18	Lecture 6	<i>Challenges and future directions in modeling aerosol-clouds-climate interactions</i>	Ch 20, 23, 12
Feb 25	Lecture 7	<i>Student presentation</i>	
Mar 4	Lecture 8	<i>Student presentation</i>	
Mar 11	Lecture 9	<i>Student presentation</i>	
		SPRING BREAK	
Mar 25	Lecture 10	<i>Student presentation</i>	
Apr 1	Lecture 11	<i>Student presentation</i>	
Apr 8	Lecture 12	<i>Student presentation</i>	
Apr 15	Lecture 13	<i>Aerosol-cloud-climate interactions: State of current science</i>	Ch 18, 24
Apr 22	Lecture 14	<i>Research needs for improved understanding of aerosol –clouds-climate interactions</i>	Ch 24

Clouds in the Perturbed Climate System: Their Relationship to Energy Balance, Atmospheric Dynamics, and Precipitation. Eds. J. Heintzenberg and R. J. Charlson, MIT Press, 2009.