

Scripps Institution of Oceanography  
SIO 20: The Atmosphere  
Course Syllabus – Winter 2014

Day	Date	Topic	Reading (7th Edition)
Mon	Jan 6	Course Introduction	
Wed	Jan 8	Atmosphere Composition and Structure	Chap 1, pg 2-18
Fri	Jan 10	Atmospheric Energy	Chap 2, pg 28-46
Mon	Jan 13	Seasonal and Daily Cycles	Chap 2, pg 46-54
Wed	Jan 15	Seasonal and Daily Cycles, <i>continued</i>	Chap 3, pg 58-73
Fri	Jan 17	Atmospheric Moisture	Chap 4, pg 84-94
Mon	Jan 20	HOLIDAY - KING DAY	
Wed	Jan 22	Atmospheric Moisture, continued	Chap 4, pg 98-99
Fri	Jan 24	Condensation, Fog and Cloud Types	Chap 4, pg 100-119
Mon	Jan 27	Stability and Cloud Development	Chap 5, pg 122-129
Wed	Jan 29	Stability, <i>continued</i>	Chap 5, pg 130-134
Fri	Jan 31	Precipitation	Chap 5, pg 134-149
Mon	Feb 3	Atmospheric Optics	Chap 15, pg 460-470; 475-478
Wed	Feb 5	MIDTERM #1	
Fri	Feb 7	Pressure, Forces and Wind	Chap 6, pg 156-165
Mon	Feb 10	Pressure, Forces and Wind, <i>continued</i>	Chap 6, pg 166-176
Wed	Feb 12	Small-scale Wind Systems	Chap 7, pg 184-200
Fri	Feb 14	Small-scale Wind Systems, <i>continued</i>	
Mon	Feb 17	HOLIDAY - PRESIDENT'S DAY	
Wed	Feb 19	Global Wind Systems	Chap 7, pg 200-213
Fri	Feb 21	Global Wind Systems, <i>continued</i>	
Mon	Feb 24	El Nino/La Nina	Chap 7, pg 213-216
Wed	Feb 26	El Nino/La Nina, <i>continued</i>	
Fri	Feb 28	MIDTERM #2	
Mon	Mar 3	Thunderstorms/Tornadoes	Chap 10, pg 286-325
Wed	Mar 5	Hurricanes	Chap 11, pg 332-351
Fri	Mar 7	Climate Change	Chap 13, pg 396-413
Mon	Mar 10	Climate Change, <i>continued</i>	Chap 13, pg 413-427
Wed	Mar 12	Air Pollution	Chap 14, pg 431-451
Fri	Mar 14	Other Topics and/or Review	

Problem Set 1 Due: Wednesday, January 22  
 Problem Set 2 Due: Friday, January 31  
 Problem Set 3 Due: Friday, February 21  
 Problem Set 4 Due: Friday, March 7  
 FINAL EXAM Monday, March 17 2013, 3:00 - 6:00pm

TEXT: Essentials of Meteorology, 7th Edition, by C. Donald Ahrens (Recommended)

Course Details on Web site: <http://meteora.ucsd.edu/~iacob/sio20/>