

**ATM 100: The Atmosphere**  
**Material covered on Exam #1**  
**Wednesday, February 26**

**Chapter 1: Earth's atmosphere**

- ~ Weather, climate, and meteorology pg. 4–6\*\*
- ~ Components of the Earth's atmosphere pg. 15–19
- ~ Vertical structure of the atmosphere pg. 19–23

*Not in book: Weather observations (see notes on website)*

**Chapter 2: Warming and cooling Earth and its atmosphere**

- ~ Temperature and heat transfer pg. 28–33
- ~ Radiant energy pg. 33–36
- ~ Radiation: Absorption, emission & equilibrium pg. 36–44
- ~ Why Earth has seasons pg. 44–51

**Chapter 3: Air temperature**

- ~ Daily warming and cooling air near the surface pg. 56–60, 62–67\*\*

*Not in book: Isotherms and temperature gradients*

**Chapter 4: Humidity, condensation, and clouds**

- ~ Circulation of water in the atmosphere pg. 80–81
- ~ Evaporation, condensation, and saturation pg. 81–87\*\*
- ~ Dew and frost pg. 91–93
- ~ Fog pg. 93–97

\*\* = Note skip in pages and sections not covered in class/on exam