

## INTRODUCTION TO METEOROLOGY

This class will be a seminar/discussion. Interactive conversations and Q & A will be encouraged in this course. Topics along with approximate timeline are as follows:

<u>Date</u>	<u>Topic</u>
Week 1	Overview of the Earth's Atmosphere, Weather & Climate
Week 2	Air Temperature (Extremes, Heat Transfer, Seasons, Greenhouse Effect, Climate Change)
Week 3	Moisture Content of the Air, Cloud Types, Cloud Development & Precipitation Processes
Week 4	Air Pressure & Winds
Week 5	Large-Scale Circulation features including: El Nino/Southern Oscillation & Jet Stream / Extra-Tropical Cyclones
Week 6	Weather Forecasting
Week 7	Thunderstorms; Lightning; Tornadoes
Week 8	Hurricanes (Tropical Cyclones)

The following will be included, if time permits: Light, Color, & Atmospheric Optics

Reference (Not necessary for the course)

Class topics excerpted from:

*Essentials of Meteorology: An Invitation to the Atmosphere.* 8<sup>th</sup> edition. C. Donald Ahrens and Robert Henson, Cengage Learning, Publisher

**Leader:** Bill Stern has been involved with atmosphere/ocean research at the Geophysical Fluid Dynamics Laboratory since 1973, and has had a fascination with weather events since the age of 13. He enjoys sharing his meteorological enthusiasm with others

**Wednesdays:** 10:00 a.m. to 12:00 noon, 8 weeks: February 28 through April 25 (no class on 3/14)

**Location:** Presbyterian Church of Lawrenceville