

EAS 2750 Physics of the Weather

Instructor:

Dr. Yi Deng
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Office Hours: Tuesdays at 10am (by appointment)

Texts:

Meteorology Today: *C. Donald Ahrens (required)*
Meteorology for scientists and engineers, *Ronald B. Stull (recommended)*

Grading:

20% Participation/in-class assignments
30% Homework
30% Exams
20% Final

My Policies:

- Anything turned in late will be marked down 10% per day.
- Graded materials will be returned to you within one week of the due date.
- Eating is only allowed in class if you bring some for everyone. Drinks are okay- we all need caffeine now and then.
- Homework is due on the specified day *before* lecture begins. It is your responsibility to give it to me at the front of class as you walk in.
- I will not be late for class. Nor will you. That would be rude.
- In class worksheets are due at the end of each lecture. Make sure the names of all your group members are on the paper(s). Turn them in to me as you leave class.
- Collaboration is an important part of learning. You may work together on homework, but I expect each of you to have your own answers. Copying directly will not help you learn (and it will get you in trouble).
- You are expected to abide by the Georgia Tech Honor Code – www.honor.gatech.edu, the United States Tax Code and all Federal Regulations.

List of topics:

Topic	Ahrens and Henson Chapter
Structure of the Atmosphere	1
Moisture	4
Clouds	5
Stability	6
Precipitation	7
Radar	7
Thunderstorms	14
Tornadoes	15
Hurricanes	16
Fronts and Mid-latitude Cyclones	11 and 12
Global Circulation	8 and 10
Equations of Motion	8
Forecasting	13