ATM 311
Severe and Hazardous Weather
Fall 2023 – Class #1136 – Lecture: Tue., Thur., 10:30-11:50 AM, ETEC 450
Discussion: Section #4355 – Wed., 4:30-5:25 PM, ETEC 450
Instructor: Ross Lazear • ETEC 417 • Phone: 437-3601
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Ross Lazear’s office hours:
2:00-3:00 PM, Mon., and Wed., and by appointment
ETEC 417 (Zoom by request)

TA: Liam Sheji • ETEC 345 • Isheji@albany.edu
Office hours: 1:00-2:00 PM Wed., and 3:00-4:00 PM Thurs., 3rd floor atrium

Class webpage: https://www.atmos.albany.edu/facstaff/ralazear/ATM311

Textbook: No text required, but I like Severe and Hazardous Weather (Rauber et al. 6 ed):

Topics covered:
Tropical cyclones
Thunderstorms (supercells, MCS, seabreeze circulations)
Lightning
Hail
Tornadoes
Severe weather forecasting and case analysis
Severe and hazardous winter weather

Objectives:
The goals of this course are to teach you the fundamental processes associated with the various meteorological phenomena listed above, and honing your weather forecasting skills. As a part of this course, you will be making your own short-term forecasts for Albany, NY in our local forecasting competition. Each week, your forecasts will be discussed in detail in a group setting during your discussion section.

Grading:
*** 20% Quizzes: Announced quizzes covering recent lecture material and geography.
*** 15% Midterm
*** 25% Final
*** 40% Homework, projects, map discussion: Combination of:
   - Tropical cyclone reading and questions, Tornado reading and questions,
   - forecast summaries, sounding analysis, convective matrix, final project
   - Map discussion grading will be discussed in your discussion section
Late same day: 10% off; next day 20%; then 30%; 50%; no credit.

Undergraduate academic regulations, and standards of academic integrity:
https://www.albany.edu/undergraduate_bulletin/regulations.html

* Note: Attendance in your weekly discussion section is mandatory.