**ATM 311**

**Severe and Hazardous Weather**

Fall 2022 – Class # 1159 – Tue., Thur., 10:30-11:50 AM, Mon. or, Wed., 4:30-5:25 PM

Instructor: Ross Lazear, ETEC 417  Phone: 437-3601
rlazear@albany.edu

**Ross Lazear’s office hours:**

2:00-3:00 PM, Mon., and Wed., and by appointment
ETEC 417 and Zoom:
Zoom link for office hours (waiting room, no password):
https://albany.zoom.us/j/620353582

**TA:** Rachel Eldridge; reldridge2@albany.edu
Office hours: 1:30-2:30 PM, Tue., and Thur., and by appointment
Meet in 3rd floor atrium (collaboratorium) unless otherwise noted

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

**Textbook:** None required, but I like *Severe and Hazardous Weather* (Rauber et al.), 6th ed. (*Available as e-book through Kendall Hunt*)

**Topics covered:**
Tropical cyclones
Thunderstorms (supercells, MCS, seabreeze circulations)
Lightning
Hail
Tornadoes
Severe weather forecasting and case analysis
Ice storms
Lake-effect precipitation

**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.

**Grading:**

***20% Quizzes:*** Announced quizzes covering recent lecture material and geography.

***15% Midterm***

***25% Final***

***40% Homework, projects, map discussion***

  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.