ATM 311
Severe and Hazardous Weather
Fall 2020 – Class # 1185 – Tue., Thur., 10:30-11:50 AM, Mon. or, Wed., 4:30-5:25 PM
Instructor: Ross Lazear, ES-322  Phone: 437-3601  rlazear@albany.edu

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

TA: Brennan Stutsrim; bstutsrim@albany.edu
Office hours: 10:00-11:00 AM Mondays, and 1:00-2:00 PM Wednesdays, and by appointment
Zoom link for office hours (password emailed):
https://albany.zoom.us/j/98256463900

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

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

Course delivery: The lectures will be online, and some discussion sections will be in person. Students who want to take the course entirely online can do so, and should email me as soon as possible. The Zoom link for the course is: https://albany.zoom.us/j/91429311576.

Objectives:
The goals of this course are to teach you the fundamental processes associated with the various meteorological phenomena listed above, and furthering your forecasting expertise from what you learned in ATM 211. 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 lab section (Monday or Wednesday).

Grading:
*** 20% Quizzes: Announced quizzes covering recent lecture material and geography.
*** 25% Three-quarter Exam
*** 10% Forecasting (details on a separate sheet)
*** 30% Homework and Projects
  Late same day: 10% off; next day 20%; then 30%; 50%; no credit.
*** 15% Map Discussion: This will be broken up as 12% for your individual map discussion, and 3% participation.
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.