ATM 311
Severe and Hazardous Weather
Fall 2018 – Class # 1194 – Tue., Thur., 10:15-11:35 AM, Mon. or, Wed., 4:35-5:35 PM
Instructor: Ross Lazear, ES-322 Phone: 437-3601
rlazear@albany.edu

Office hours:
2:00-3:00 PM, Mon., and Wed., and by appointment

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

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- and long-term forecasts for Albany, NY in our local forecasting competitions. Each week, your forecasts will be discussed in detail in a group setting during your lab section (Monday or Wednesday).

Grading:
- **15% Quizzes**: Announced quizzes covering recent lecture material and geography.
- **15% Mid-term**
- **20% Final Exam**
- **10% Forecasting** (details on a separate sheet)
- **25% 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.

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

Requirements:
*Severe and Hazardous Weather*, 4 ed., Rauber et al.