**ATM 311**  
**Severe and Hazardous Weather**  
Fall 2016 – Class # 1214 – Tue., Thur., 10:15-11:35 AM, Mon./Wed., 5-6 PM  
Instructor: Ross Lazear, ES-322  Phone: 437-3601  
rlazear@albany.edu

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

**TA:**  
Pamela Eck, ES-218: peck@albany.edu  
Office hours: 4:05-5:00 PM, Mon. and Wed.

**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 snowstorms and blizzards

**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 (Mon. or Wed., 5-6 PM in ES-333).

**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.