ATM 413: Weather, Climate Change, and Societal Impacts

Term: Spring 2020
Class Number: 9694
Credits: 3

Monday, Wednesday, & Friday 9:20 AM – 10:15 AM
Catskill 147

http://www.atmos.albany.edu/facstaff/tang/classes/atm413/

Professor:
Brian Tang
ES 324
518-442-4572
btang@albany.edu
Office hours: Tues. and Thurs., 11 am – noon (or by appointment)

Teaching Assistant:
Emily Paltz
ES 330
epaltz@albany.edu
Office hours: Mon. and Wed., 10:30 am – 11:30 am (or by appointment)

Prerequisites:
A ATM 210 and A ATM/ENV 315

Course Requirements:
In-class worksheets: 10%
Assignments: 40%
Term paper: 40%
Final presentation: 10%

In-class worksheets are designed to help you understand the course content. Worksheets will exercise both individual and team learning. Some worksheets will be lead-ins to questions on assignments.

Assignments are in-depth explorations of course content, and will enable you to practice concepts and tools learned from this and previous classes. These assignments often draw from real-world data and simulate what you might be asked to do in a job.

The term paper consists of three elements: an abstract, part one of the term paper focusing on the science of your topic, part two of the term paper focusing on the societal impacts of your topic. You will also give a final presentation on your topic. Exact due dates and information regarding each portion will
Late assignments, late term papers, and makeup presentations will only be allowed for university-recognized excuses*. Please contact me ahead of a due date with your excuse and documentation to get an extension.

Students are expected to uphold academic integrity standards*. Violations of academic integrity will result in a zero on the graded item.

**Grading:**
A–E

**Course Modules:**
The overall goal of the class is to learn how your atmospheric and environmental science education is applied in the real world, so you can gain a preview of what you might encounter after you receive your degree. The class content consists of modules, listed below, where each module focuses on the science and an application of a specific topic.

1. Weather/Climate Sensitivity
2. Snowstorms and Urban Hazards
3. Tropical Cyclones and Risk
4. Wildfires and Wildland-Urban Interface
5. Climate Change and Policy
6. Space Weather and Technological Vulnerabilities (if there is time)

*University-recognized excuses and the academic integrity standards may be found at [http://www.albany.edu/undergraduate_bulletin/regulations.html](http://www.albany.edu/undergraduate_bulletin/regulations.html)