**Weather and Climate Lab**

AOSC 201 – section 0103

Friday 08:00-10:00

CSS 3426

Instructor: Austin Hope

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Office: Jull 3111

Hours: Mon 12:00-13:30

Tue 11:00-12:30

By appointment

Webpage: <http://www.atmos.umd.edu/~ahope/aosc201/>

**Required textbook:**

Explorations in Meteorology: A Lab Manual

ISBN 978-0495010296

Please make sure that you have the lab manual for class, as you will be turning in pages from the manual for each lab. As such, if you are buying a used lab manual, make sure it has all the labs listed in the schedule below. If you do not have a new or used lab manual, you must get color copies each week from someone who does. Many of the labs will be incredibly difficult without color. Our department copier does not copy color, (and we don’t want to waste paper,) so it is on you to get those color copies.

**Grading:**

Grade scale:

100%-85% A 85%-70% B 70%-55% C 55%-40% D

Grade breakdown:

Labs (13) – 50pts each, worth 80% of your grade

Quizzes (12) – 10pts each, with attendance worth 20% of your grade

Attendance – 10pts, with quizzes worth 20% or your grade

**Attendance:**

Weekly attendance is expected.

In the event that a class must be missed due to illness, religious observance, or other serious issues, notify me in as much advance as possible (or immediately after the missed session) and a lab make-up will be allowed.

If multiple lab sessions are to be missed, a doctor’s note (or situational equivalent) is required for make-ups.

**Academic Integrity:**

The University of Maryland has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council. This Code sets standards for academic integrity at Maryland for all undergraduate and graduate students. As a student you are responsible for upholding these standards for this course. It is very important for you to be aware of the consequences of cheating, fabrication, facilitation, and plagiarism. For more information on the Code of Academic Integrity or the Student Honor Council, please visit <http://www.studenthonorcouncil.umd.edu/whatis.html>

**Schedule:**

Week of Lesson # Lab Manual Chapter

1/28 1 Geography 1

2/4 2 Earth-Atmosphere System 2

2/11 3 Radiation and Energy Transfer 3

2/18 4 Daily Temperature Cycle 4

2/25 9 Hurricane Tracks and Forecasts 13

3/4 6 Surface Map Analysis 7

3/11 7 Soundings and Stability 9

3/18 Spring Break

3/25 8 Atmospheric Motions Handout

4/1 5 Atmospheric Moisture Handout

4/8 10 Air Masses and Fronts 6

4/15 11 Thunderstorms and their Environments 11

4/22 12 Climate Controls Handout

4/29 13 Weather Forecasting 15

Please note that this is NOT the exact same order as stated on Dr. Hudson’s website – the last two labs have been switched.