

**University of Oklahoma**  
**Atmospheric & Geographic Sciences**  
**School of Meteorology**  
**METR 4922: Senior Seminar II (Capstone)**  
**Spring 2017 Syllabus**

**Instructor:** Dr. Cameron Homeyer

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**Phone:** (405) 325-5303

**Office Hours:** By Appointment Only

**Canvas Learning Management System:** <https://canvas.ou.edu>

**Course Meeting Time and Location:**

*Lecture: MW 12:00-12:50 PM in NWC 5600*

**Course Prerequisites:**

*Grade of C or better in METR 4911.*

**Course Description:**

*This course completes the OU and SoM Capstone course requirement. With the advice of the instructor and your mentors, you will complete the research project proposed in METR 4911. Each group will write up their project in the form of a senior thesis, give oral presentations on their project during the semester, provide feedback on peer presentations and theses, and conclude the semester with a poster presentation open to all National Weather Center personnel.*

**Course Goals:**

*My goals for this course are to develop your understanding of and interest in research in the atmospheric sciences. Ultimately, you should leave the Capstone sequence with a detailed understanding of the research process and research culture in the atmospheric sciences.*

**Learning Outcomes:**

*Upon completion of the Capstone course sequence, I expect you to be able to:*

- *communicate scientific topics, methods, and results with others (both verbally and in writing)*
- *review and challenge the work of others based on sound arguments and evidence*
- *analyze datasets and identify the significance of your results*

**Texts and Materials:**

*None required.*

**Expectations:**

*During lecture, I expect you to be respectful to everyone. Please silence your cell phones, limit personal conversation, and take an active role in class. **The use of cellular phones is never permitted. Laptops may be used during group activities, but may never be used during presentations.***

## **Final Grade:**

*Your final cumulative grade in this course will be a weighted average of the following assessments:*

- Final Research Paper           **30%**
- Poster Presentation           **20%**
- Oral Presentation           **20%**
- Peer Review           **15%**
- Monthly Progress Reports   **15%**

*Percentage grades will correspond to letter grades as: **A** (>90%), **B** (>80%), **C** (>70%), **D** (>60%). If grades do not conform well to these percentages, a curve may be applied. There is no final exam in this course.*

## **Course Policies**

### **Absences & Make-up Policy**

*Students with excused absences (University/academic commitment, health/family issue, jury duty, etc.) may make up any missed work with me for the day of their absence. If an excused absence falls on a due date for an assignment, please contact me as soon as possible to arrange acceptable accommodations for making up missed work.*

### **Late Assignments**

*All major course assignments need to be submitted in D2L. Late submission of assignments will not be accepted unless related to excused absences. Assignments are due by 5 pm on the provided date.*

## **University Policies**

### **Academic Integrity**

*Academic integrity is expected of all students enrolled at the University of Oklahoma and in this class. Please visit <http://integrity.ou.edu> for a student's guide to academic integrity and the OU code. Violations of the code (defined as "any act that improperly affects the evaluation of a student's academic performance or achievement") will not be tolerated.*

### **Religious Observance**

*It is the policy of the University to excuse the absences of students that result from religious observances and to reschedule examinations and additional required classwork that may fall on religious holidays, without penalty.*

### **Reasonable Accommodation Policy**

*The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with the professor as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone 405/325-3852 or fax only 405/325-4173.*

## Tentative Schedule

Week	Topic(s)	Notes/Assignments
1 (1/16)	Spring Outlook	
2 (1/23)	Oral Presentation & Project Paper Guidelines	
3 (1/30)	5-min Oral Presentations	<b>Peer Review Each Class</b>
4 (2/6)	Progress Reports	
5 (2/13)	Progress Reports	
6 (2/20)	Paper Peer Review How To	<b>Group Peer Review Assignment</b>
7 (2/27)	Group Peer Review	
8 (3/6)	-----	
9 (3/13)	-----	No Class; Spring Break!
10 (3/20)	Progress Reports	
11 (3/27)	Progress Reports Poster How To	<b>Paper Draft Due Friday</b>
12 (4/3)	15-min Oral Presentations	<b>Paper Peer Review Due Friday; Presentation Peer Review Each Class</b>
13 (4/10)	15-min Oral Presentations	<b>Peer Review Each Class</b>
14 (4/17)	15-min Oral Presentations Semester Wrap-Up	<b>Peer Review</b>
15 (4/24)	Poster Presentations!	No Class <b>Poster Session TBD</b>
16 (5/1)	Final Papers!	No Class <b>Final Paper Due Friday</b>

### Additional Information:

*Class periods will be used for three primary instructional activities: 1) previews of upcoming assignments and associated requirements and expectations, 2) weekly individual Capstone group meetings with instructor (project report weeks), and 3) open class discussions.*