

Extreme Weather

[3 Credit Hours]

Gen Ed 'P' – Physical Science

Fall 2022 Syllabus

Instructor: Holli Capps Herron (they/them)

Email: hcapps65@ufl.edu

Office Hours: TBD (link will be provided on Canvas)

Or by appointment

Course Website: Log in to CANVAS at <http://lss.at.ufl.edu>

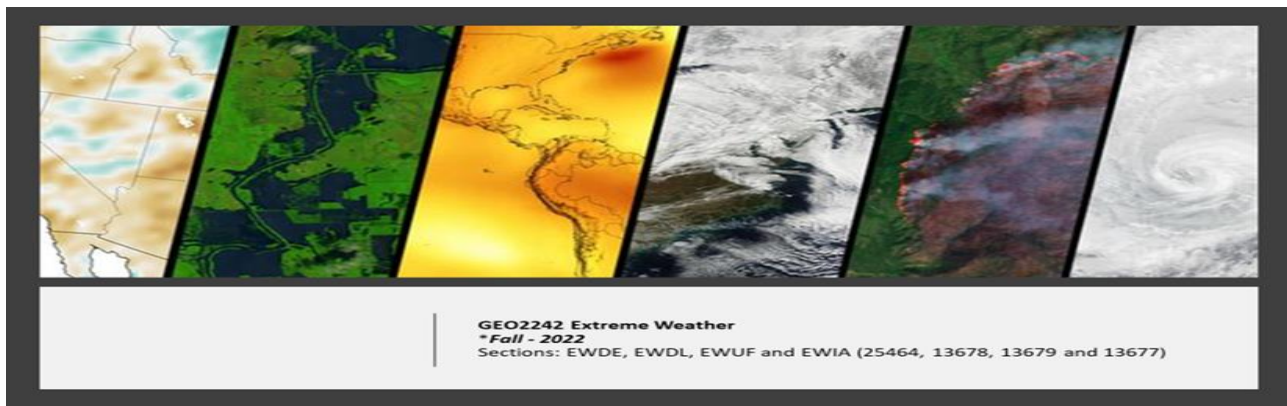
Course Communications: You can email at email given above or via email in Canvas. If emailed via Canvas they keep a full record of it – so this is preferred.

Required Text: '*The Atmosphere*' by Lutgens, Tarbuck and Tasa, 14th edition, ebook from Pearson. Available access to sign up for this text can be found by logging into the course on Canvas and accessing via the canvas page. Cost is around \$80.00. This is a required eText and you must purchase it via UF All-Access and Canvas. Weekly reading assignments, quiz assessments and homework assignments will be run through the ebook and Mastering Meteorology platform that is synced with the Canvas page - so you MUST obtain this ASAP.

- **Pearson Help representatives:** Christina Bolton (christina.bolton@pearson.com) and Robert Stahlinski (robert.stahlinski@pearson.com)

See information in Canvas on How to Sign Up and Purchase this ebook – on 'Home' page of canvas course, via UF All-Access. PDFs of ebook and Mastering registration instructions is available in email attachments, and files uploaded into Canvas.

Course Goals and/or Objectives: This course will introduce students to the basic concepts of the science of weather and climate and current scientific developments in such areas as extreme weather prediction, global climate change, and improved forecasting of events. In addition, the course will address the impact of extreme climate and weather events on society and the environment. The goal of this course is to bring weather and climate alive for you through required readings, assignments, video presentations, satellite technologies, online class activities and computer simulations. Weekly readings will be enhanced through the use of such multimedia products and online class activities, reinforcing concepts related to extreme climate and severe weather events.



Course Policies & Assignments:

Course organization: Course is organized by 'Modules'. Each module covers a chapter in the ebook and has three [3] assignments: a homework assignment, a mapping activity and an end of the module quiz to wrap it up.

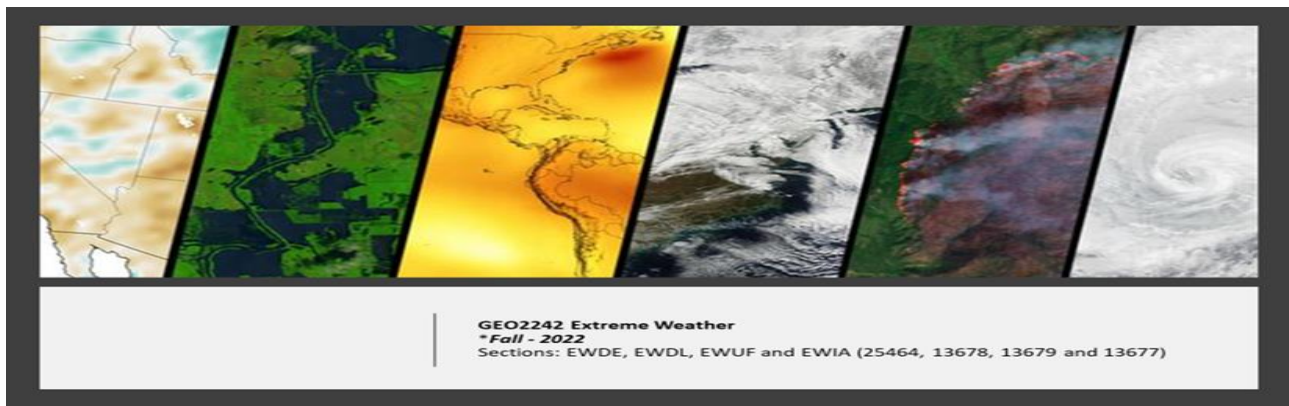
Readings and Homeworks: Each module there is an assigned chapter reading with a related module homework – these test that you have completed the readings, and the goal of these homeworks is to test your understanding of the material, to reinforce concepts from the reading and videos, and to allow you to apply your skills and knowledge in a relaxed online learning environment. You need to read the chapter prior to starting and completing the homework. There is a homework for each module, they are worth 100 points each, contain 10-20 questions, and will take roughly 1 to 1.5 hours (some are shorter like 30-45 minutes). You have 3 attempts and your best score is kept.

Mapping Activities: The mapping activities will introduce you to do some basic mapping concepts like layers and projections, etc. As well as applying critical thinking to different weather & geography topics and issues presented throughout the course. These will use 'MapMaster2.0' questions (where available), 'Thinking Spatially' questions (where available) and 'Encounter' questions like Encounter Meteorology/Physical Geography/Geosystems that use Google Earth Pro. MapMaster and Google Earth Pro are fully integrated into the Mastering online platform and built into the questions – they'll just pop up as another window. These assignments are worth 100 point each, contain 4-8 questions and also have 3 attempts where your top score counts. These have an estimated completion time that is less than the homeworks, but will depend on individuals working with the online tools and if you need help in office hours, for example.

End of Module Quizzes: To summarize the module and test your general knowledge and comprehension of that modules topics, there is a quiz. These are worth 100 points each, consist of 50 questions, and 1 attempt of 60 minutes. Keep in mind, this tests the range of all materials in the module and ebook chapter – you will not do well on the quizzes without reading the chapter. If you have extenuating circumstances where you need another attempt, or disability accommodations (mentioned more below) where you need extra time, etc., please just communicate with us the best you can. Additionally, the number of modules and assignments (including these quizzes) are created in such a way, that one bad grade or missed assignment will not tank your final grade in the course.

Final Exam: There will be a final exam for this course. This will test your comprehension and understanding of the materials from the full course. Module assignments and activities will compose the majority of your grade. The final exam will be worth 525 points or about 11% of the total points in the course. The final exam is scheduled for **Wednesday December 14th 2022**. It will be a comprehensive exam and will cover all material in the course. Equal across modules, there will be 10 questions randomly be selected from each module for a total of 140 questions. You will have at least 2 hours.

Note: you will soon realize all the material is related and builds across the course, the same concepts will appear again and again throughout the course and so this really is the optimum way to test it. The questions will come from the same test banks as the quizzes, so these will be the best study materials.



UF Policies:

University Policy on Accommodating Students with Disabilities: Students requesting accommodation for disabilities must first register with the Dean of Students Office (<http://www.dso.ufl.edu/drc/>). The Dean of Students Office will provide documentation to the student who must then provide this documentation to the instructor when requesting accommodation. You must submit this documentation prior to submitting assignments or taking the quizzes or exams. Accommodations are not retroactive, therefore, students should contact the office as soon as possible in the term for which they are seeking accommodations.

University Policy on Academic Misconduct: Academic honesty and integrity are fundamental values of the University community. Students should be sure that they understand the UF Student Honor Code at <http://www.dso.ufl.edu/students.php>.

Netiquette & Communication Courtesy: All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats.

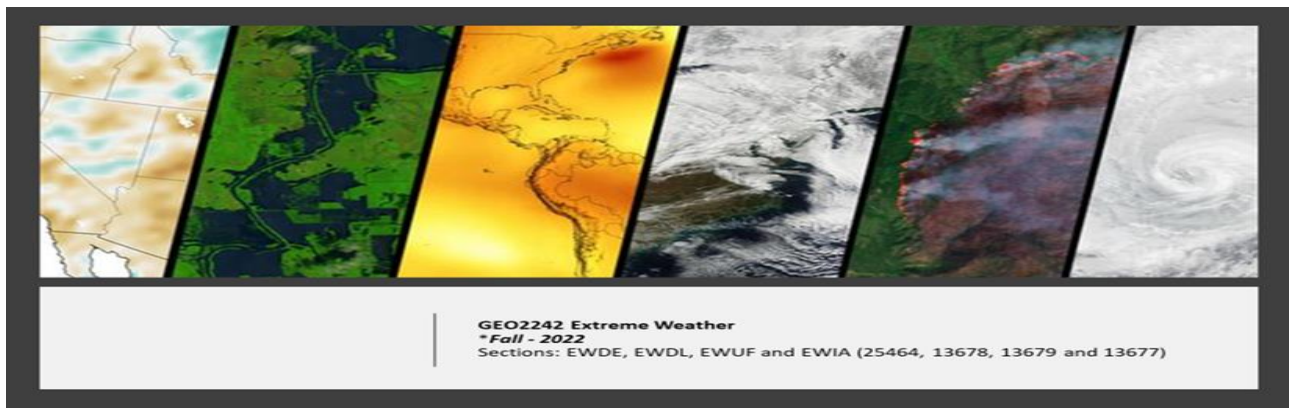
Getting Help:

• Academic Resources

- E-learning technical support: Contact the UF Computing Help Desk at <https://helpdesk.ufl.edu/>, 352-392-4357 or via email at helpdesk@ufl.edu.
- Career Connections Center: Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services at <https://career.ufl.edu/>
- Library Support: <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.
- Teaching Center: Broward Hall, 352-392-2010 or to make an appointment 352-392-6420. General study skills and tutoring. <http://teachingcenter.ufl.edu/>

• Health and Wellness

- Resources U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit <https://umatter.ufl.edu/> to refer or report a concern and a team member will reach out to the student in distress.
- Counseling and Wellness Center: Visit <https://counseling.ufl.edu/> or call 352-392-1575 for information on crisis services as well as non-crisis services.
- Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need or visit <https://shcc.ufl.edu/>.
- UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; <https://ufhealth.org/emergency-room-trauma-center>
- COVID-19: If you are experiencing COVID-19 symptoms, please use the UF Health screening system and follow the instructions on whether you are able to attend class. You will be given a



reasonable amount of time to make up work if deadlines are missed due to COVID-19 related health problems. Please consult the following links for more information:

- CDC Guidance on Coronavirus Symptoms: <https://www.cdc.gov/coronavirus/2019-ncov/symptomstesting/symptoms.html>
- UF Health COVID-19 Exposure & Symptoms Quick Reference Guide: <https://coronavirus.ufhealth.org/screen-testprotect/covid-19-exposure-and-symptoms-who-do-i-call-if/>
- UF Guidance for Return to Campus: <https://coronavirus.ufl.edu/health-guidance/>

Grading Policies:

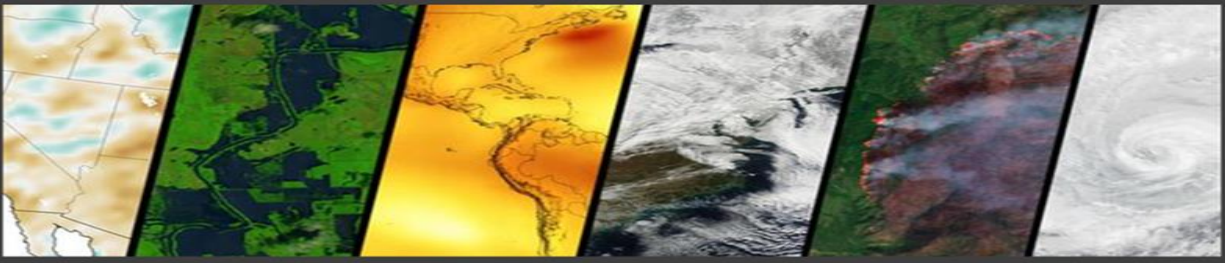
Assignment Type	Points
Introduction to Mastering Geography	Complete/Incomplete
Module ebook Chapter Readings	Complete/Incomplete
Module Homework	100 points each
Module Mapping Activity	100 points each
End of Module Quiz	100 points each
Final Exam	525 points

GRADING SCHEME:

All grades will be available for you to see in Canvas and will be updated weekly. It is your responsibility to know how well you are doing in the class.

- 93-100% = A
- 90-92.9% = A-
- 87-89.9% = B+
- 83-86.9% = B
- 80-82.9% = B-
- 77-79.9% = C+
- 73-76.9% = C
- 70-72.9% = C-
- 67-69.9% = D+
- 63-66.9% = D
- 60-62.9% = D-
- Less than 60 = E (Fail)

Disclaimer: This syllabus represents my current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.



GEO2242 Extreme Weather
 *Fall - 2022
 Sections: EWDE, EWDL, EWUF and EWIA (25464, 13678, 13679 and 13677)

Assignment Schedule:

Module	Assignments	Points	Dates
Getting Started	* Introduction to Mastering Geography	* Complete/Incomplete	Thursday August 25th
Module 1	* Read Chapter	* Complete/Incomplete	Thursday August 25th through
<i>Introduction to the Atmosphere</i>	* Homework	* 100 points	Tuesday August 30th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 2	* Read Chapter	* Complete/Incomplete	Thursday September 1st through
<i>Heating Earth's Surface and Atmosphere</i>	* Homework	* 100 points	Wednesday September 7th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 3	* Read Chapter	* Complete/Incomplete	Friday September 9th through
<i>Temperature</i>	* Homework	* 100 points	Wednesday September 14th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 4	* Read Chapter	* Complete/Incomplete	Friday September 16th through
<i>Moisture and Atmospheric Stability</i>	* Homework	* 100 points	Wednesday September 21st
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 5	* Read Chapter	* Complete/Incomplete	Friday September 23rd through
<i>Forms of Condensation and Precipitation</i>	* Homework	* 100 points	Wednesday September 28th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 6	* Read Chapter	* Complete/Incomplete	Friday September 30th through
<i>Air Pressure and Winds</i>	* Homework	* 100 points	Wednesday October 5th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 7	* Read Chapter	* Complete/Incomplete	Friday October 7th through
<i>Circulation of the Atmosphere</i>	* Homework	* 100 points	Wednesday October 12th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 8	* Read Chapter	* Complete/Incomplete	Friday October 14th through
<i>Air Masses</i>	* Homework	* 100 points	Wednesday October 19th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 9	* Read Chapter	* Complete/Incomplete	Friday October 21st through
<i>Weather Systems</i>	* Homework	* 100 points	Wednesday October 26th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 10	* Read Chapter	* Complete/Incomplete	Friday October 28th through
<i>Thunderstorms and Tornadoes</i>	* Homework	* 100 points	Wednesday November 2nd
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 11	* Read Chapter	* Complete/Incomplete	Friday November 4th through
<i>Hurricanes</i>	* Homework	* 100 points	Wednesday November 9th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 12	* Read Chapter	* Complete/Incomplete	Monday November 14th through
<i>Weather Analysis and Forecasting</i>	* Homework	* 100 points	Friday November 18th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 13	* Read Chapter	* Complete/Incomplete	Monday November 28th through
<i>The Changing Climate</i>	* Homework	* 100 points	Friday December 2nd
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 14	* Read Chapter	* Complete/Incomplete	Monday December 5th through
<i>World Climates</i>	* Homework	* 100 points	Wednesday December 7th
	* Mapping Activity	* 100 points	2022
	* End of Module Quiz	*100 points	
Module 15	Final Exam	525 points	Wednesday December 14th
		Total 4725 points	