

Instructor: Dr. Dorian J. Burnette
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Office Hours
11:30 a.m.-12:30 p.m. Mon & Wed
and by appointment

I encourage you to talk to me individually whenever you need to discuss your progress in the course or whenever you have a topic of special interest you want to discuss individually.

COURSE WEBSITE

elearn.memphis.edu (eCourseware)

COURSE TEXTBOOK

Climatology, 4th Edition, by Rohli and Vega

The textbook will be supplemented with free modules from MetEd (www.meted.ucar.edu).

ABOUT THE COURSE

The first two parts of the course cover climatological processes, statistical and applied climatology, and the classification of climates around the world. The last part of the course covers climate modeling, climates of the past, climate variability and change, and projected changes in the future. Prerequisites: ESCI 1010 (Weather and Climate) and MATH 1710 (College Algebra).

GRADES

Your grade at the end of the semester is completely determined from the total number of points earned. These points come from 1) three exams and 2) six exercises. Final grades will be determined from a total of 420 points:

Grade	Points Needed	Average Percentage
A	378	90%
B	336	80%
C	294	70%
D	252	60%

Exams:

This course has been broken up into three sections, and an exam is scheduled at the completion of each section. Each exam is worth 100 points, and will take the format of fill-in-the-blank, problem solving, and discussion questions. While each chapter builds on previous chapters, exams only cover the new material presented. In other words, material on Exam 1 will not show up on Exam 2 or 3.

Exams can be made up, but you must have a legitimate, verifiable, and an unavoidable reason. If you know you are going to be absent, then please make arrangements for a makeup before the exam. If you miss an exam because of an unforeseen emergency, arrangements to make it up must be made as soon as you return to campus. Please note that while makeup exams will be in the same format and cover the same material, they may not ask the same questions. The last day to makeup an exam is Study Day, 5 December 2019.

Exercises:

There will be six exercises worth 20 points each, and are due at the beginning of class on the date listed. You may work on these exercises in groups if you wish, but each student must turn in their own set of answers.

It is better to hand in exercises late than not at all. Any exercises turned in late, however, are subject to a grade penalty. The later an exercise is, the more stiff the penalty. For each class period that an exercise is late, 10% of the maximum points will be subtracted. Please note, the last day to turn in late exercises is Study Day, 5 December 2019.

Attendance:

I will not call roll. I am assuming that you can make your own decisions about class attendance and how it might influence your performance. However, it is in your own best interest to attend class for a couple of reasons. First, this is a 4000/6000-level course and class lectures will likely go beyond the textbook at times to include new material from the peer-reviewed literature, especially later in the semester. Second, I will memorize your names and faces and will know who comes to class regularly. I may use such information to give the benefit of doubt to borderline grade situations. My experience has shown students who miss a number of days, do not perform as well on exams as they could have had they attended class.

STUDENT CONDUCT

Academic Dishonesty:

Cheating, plagiarism, or any other form of academic dishonesty will not be tolerated. Cases of academic dishonesty will be dealt with in accordance with the policies set forth in the University's Code of Student Rights and Responsibilities available at www.memphis.edu/osa/pdfs/csrr.pdf. It is your responsibility to understand these policies. A lack of understanding is not an adequate defense against a charge of academic dishonesty.

Cell Phones, Laptops, Tablets:

The use of cell phones, laptops, or tablet computers for purposes other than note taking is not allowed during class. Flagrant violation of this policy will result in you being dismissed from class.

STUDENTS WITH DISABILITIES

Any student who may need class or test accommodation based on the impact of a disability will need to contact Student Disability Services (SDS) at 110 Wilder Tower, 901-678-2880, www.memphis.edu/drs/. SDS coordinates accommodations for students with documented disabilities. A registration form is available on their website.

COURSE SCHEDULE

Note: There is always a chance that this schedule could change. Any changes will be announced in class and updated in this syllabus on the course website.

Date	Topic	Chapter
27 August	Intro to Climatology / Atmospheric Structure	1 / 2
29 August	Climate System Controls	3
3 September	Climate System Controls	3
5 September	Atmosphere and the Earth System	4
10 September	No Class – NWA Conference	
12 September	No Class – NWA Conference	
17 September	Atmosphere and the Earth System	4
19 September	Energy, Matter, and Momentum Exchanges	5
24 September	Energy, Matter, and Momentum Exchanges	5
26 September	Hydrologic Cycle and Surface Water Balance	6
1 October	Hydrologic Cycle and Surface Water Balance	6
3 October	Atmospheric Circulation	7
8 October	Exam 1	
10 October	Introduction to Statistical Climatology	Lecture
15 October	No Class – Fall Break	
17 October	Teleconnections and Applied Climatology	13 / 14
22 October	Climate Classification	8
24 October	Climate Classification	8
29 October	Extratropical Northern Hemisphere Climates	9
31 October	Extratropical Northern Hemisphere Climates	9
5 November	Tropical and Southern Hemisphere Climates	10
7 November	Tropical and Southern Hemisphere Climates	10
12 November	Exam 2	
14 November	Climate Modeling	Lecture + 13
19 November	Paleoclimatology	Lecture + 11
21 November	Paleoclimatology	Lecture + 11
26 November	Anthropogenic Climate Change	Lecture + 12
28 November	No Class – Thanksgiving Break	
3 December	Anthropogenic Climate Change	Lecture + 12
12 December (10:30 a.m.-12:30 p.m.)	Exam 3	

***Note: 5 December 2019 is the last day to turn in late assignments and makeup missed exams**