SYLLABUS

GEOL 1447-23401 – Meteorology

Spring 2020

Instructor:

Brett Cummins
bcummins@dccc.edu

Course Materials:

Option 1: Textbook and Lab Manual Package:

Available through the bookstore in hard copy
ISBN: 9780135260715


Option 2: E-textbook, Study Guide, and Separate Lab Manual – Recommended:

Alternatively, if you prefer to save money on the textbook by purchasing a digital version, as well as an enhanced learning and study resource, I recommend the following approach:

1. Mastering Meteorology (E-Textbook with Study Guide)
   ISBN: 9780134800943
   Purchase directly from this web site: Mastering eText and Study Guide

   Click on the following icon for detailed instructions to purchase:

   ![SelfStudyAccess to MasteringMeteorology Registration.docx]

2. Lab Manual (same as above with this option)
   ISBN: 9780134041360
   Purchase directly from the bookstore
Regardless of how you obtain the text and lab manual, just get it as you will need it in this course. Feel free to rent or buy (new or used). It’s really up to you.

**Student Learning Outcomes:**

Upon successful completion of this course, students are able to do the following:

1. Understand the basics of weather and climate, know where weather information comes from, and understand the basic weather phenomena in our atmosphere that creates weather, climate conditions and patterns.

2. Understand and use weather instrumentation, technology and internet resources to gather data about the present measurable characteristics of the atmosphere, i.e., weather.

3. Use the data to analyze present weather conditions and to practice predicting future weather conditions.

4. Use concepts of weather, weather changes, climate and climate changes to be able to analyze models for future climate changes.

**Core Objectives:**

GEOL 1447 is part of the *Life and Physical Sciences* Foundational Component Area 030.

i. Courses in this category focus on describing, explaining, and predicting natural phenomena using the scientific method.

ii. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on human experiences.

iii. The following four Core Objectives must be addressed in each course approved to fulfill this category requirement:

(A) **Critical Thinking Skills:** to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information;

(B) **Communication Skills:** to include effective development, interpretation and expression of ideas through written, oral and visual communication;

(C) **Empirical and Quantitative Skills:** to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions;

(D) **Teamwork:** to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.
How to pass this course:

Assignments:

Textbook:

Read the textbook chapter for the week as noted in Blackboard and view the weekly PowerPoint Presentation for that chapter found in that week’s link. This will be considered your lecture portion for the week, preparing you for the submitted assignments below.

Lecture Quiz:

Complete the lecture quiz assignment by the deadline for each chapter. The quizzes will be 25 questions, mostly multiple choice and true and false.

Lab:

Complete the lab assignment using your lab manual to answer the gradable lab questions. As this is an online course, you will use a Word document to record and submit your answers in Blackboard. Please do not attempt to scan the numerous pages in the lab manual or take pictures to upload. From historical experience, that is not optimal and results in many challenges and errors. I will let you know in advance which questions from each lab will be graded. You will simply write the number of the question, followed by the answer on the document, save it, and submit it in the lab assignment portal. The number of lab questions each week will vary.

Discussion Post:

You will be required to post one discussion thread each week pertaining to something unique, original, and personal that you have learned regarding that week’s assignment. You will also be required to respond to at least three of your classmate’s posts throughout the semester. Please keep it simple and post only a few sentences; however, make it meaningful and written as from a responsible college student’s perspective.

Midterm and Final Exams:

You will have a midterm and a final exam. A study guide will be posted in advance.

Grading:

The final grade is based on total points earned:
Weekly Quizzes: 30 points
Weekly Lab: 35 points
Discussion Board Posts: 5 points
Midterm Exam 15 points
Final Exam: 15 points
Total: 100 points

Final Grade will be based on total points accrued out of 100:

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**Schedule:**

For the purpose of this course, a week will be defined as a Monday through the following Sunday. The lecture quiz, labs, and discussion posts for each week are due by 11:59pm on Sunday. Follow instructions in the Blackboard Assignments module to submit the assignments.

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**INSTITUTIONAL POLICIES**

To learn more about other Brookhaven institutional policies not listed here, visit:

Brookhaven Institutional Policies

Student Access to Microsoft Office 365

If you have any questions at any time, please ask. Communication and discipline is key to doing well in an online course.

Sincerely,

Brett Cummins