

GEOGRAPHY 131-06 (1087); WEATHER AND CLIMATE (LECTURE)
Spring Semester 2008 (3 credit hours)

Professor: Dr. John B. Strait *Class Room:* 207 Lee Drain Building (LDB)
Office: 335 Lee Drain Building *Class Time:* T/TH. 12:30 pm – 1:50 pm
Phone: 294-4077 *Office Hours:* M/W. 1:30 pm–3:30 pm
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COURSE DESCRIPTION:

This course will present and explore the introductory concepts of the physical processes and patterns that control our Earth's atmospheric system. In addition, topics like weather forecasting, air pollution and climate change, will also be incorporated into the course. There is a separate lab component (one credit course taught by a different instructor) you can register for that will reinforce and supplement concepts learned in class.

Course Objectives: Upon completion of this course, students should be able to:

- a) analyze, describe, and diagram the basics of major atmospheric processes including energy, pressure, wind, precipitation, air masses, fronts, and storm systems.
- b) perform basic calculations pertinent to these processes (fundamental algebra skills assumed).
- c) describe and diagram how these processes are linked in a system.
- d) analyze, describe and diagram the spatial patterns of weather systems.
- e) describe some of the impacts of weather on human activity.
- f) describe all of the different climates/biomes of the world and the reasons for each locale.
- e) articulate the different arguments for each side of the climate change debate.

By increasing knowledge of the geography of weather and weather-related phenomena, this course will allow students to further understand the physical and environmental system within which we live.

TEXTBOOK AND OTHER MATERIALS: The primary book we will be reading will be;

1. Gillespie, B. M., D. I. Netoff, and J. W. Tiller, 2006. *eWeather and Climate*. 1st edition, The Start Group, Huntsville, Texas. (This is an E-book)
2. Other readings may be used and will be announced as the semester progresses. Such additional material and/or reading may be placed on blackboard, on reserve in the library or distributed in class.

Your Reading Responsibilities;

Because of time limitations, it will not be possible to discuss all assigned reading material in class. This means that:

- 1) in some cases, only part of a chapter is assigned; and
- 2) you are responsible for reading the assigned material on your own and learning it. So, if a concept mentioned in the readings is not discussed in lecture please make sure you know it. The greatest emphasis on tests will be placed on lecture material; and, I assure you that on an exam I will not ask about obscure information in the text. As a general rule, *most*, if not all material you will be tested on will be covered in class to some degree. However, you should learn key concepts and vocabulary in the assigned readings.

Reading and study of the assigned material is an important preparation for this course. Certain assigned material will also be useful to you as a reference for key terms and ideas. **HOWEVER**, it is important to understand that **THERE IS NO SUBSTITUTE FOR ATTENDING CLASS**. Due to the nature of the course, some material that will be discussed in class will not be found in the books or readings assigned in class. Class lectures will draw from a variety of sources, and goes beyond information covered in any assigned readings.

Lecture Outlines:

The course will be somewhat geared toward a traditional lecture format. Whenever possible, classroom lectures in Power Point format will be posted on the course website available on Blackboard (usually the night before). However, keep in mind that some lectures and course discussions cannot be posted on Blackboard. While these outlines can be very useful as study tools, I would discourage you from totally relying on them – they are simply outlines and will not include all important material. **MOREOVER, BLACKBOARD WILL MOST LIKELY BE UNAVAILABLE AT CERTAIN TIMES DURING THE SEMESTER**. An inability to access lecture outlines from Blackboard (either due to a system problem OR simply because they are not available) does **NOT** constitute a valid excuse for missing an exam – thus, it would be wise to avoid waiting until the night before an exam to print them out and/or study them!

ATTENDANCE AND CLASSROOM OBLIGATION:

Students are expected to attend class on time on a regular basis. In accordance with university policy, attendance will be taken regularly and used to aid in your semester-end evaluation. Thus, regular attendance will allow you to earn free points, while failure to attend class may result in lowering of grades. *Any student missing 40 % of the course will NOT pass and you will NOT be counted present if you arrive to class late and attendance has already been taken.* It is the student's responsibility to acquire information of material covered while absent (including handouts and readings distributed and/or assigned in class). Students are also responsible for any changes in assigned material or due dates. **MAKE-UP ASSIGNMENTS WILL NOT BE GIVEN WITHOUT A DOCUMENTED EXCUSE.**

EVALUATION: (due dates for some assignments will be announced over the course of the semester)

1. Exam 1 (DATE TO BE ANNOUNCED).....	80 points (20 %)
2. Exam 2 (DATE TO BE ANNOUNCED)	88 points (22 %)
3. Exam 3 (DATE TO BE ANNOUNCED)	88 points (22 %)
4. Final Exam (DATE TO BE ANNOUNCED)	100 points (25 %)
5. Article critique	20 points (5 %)
6. Other Assignments	12 points (3 %)
7. Attendance and participation	12 points (3 %)
 Total	 400 points (100%)

The grading scale will be based on a 10-point system; 90 -100% = A, 80 - 89 % = B, etc.

*** NO EXTRA CREDIT IS GIVEN TO INDIVIDUAL STUDENTS ***

Important Dates;

Monday, January 21; – MLK, Jr. Holiday NO CLASS

Friday, February 1 – 12th Class Day; last day to drop without a Q and receive 100% refund

Friday, February 8 – last day to drop courses without a grade of F; last day to resign without receiving a WP or WF

Monday – Friday, March 10-14, SPRING BREAK; NO CLASS

Friday, March 21' Good Friday; NO CLASS

Thursday, May 8 – Last Day of Class

Final Exam Date (Pre-set date and time; See University-wide Final Exam Schedule)

Exams:

The exams will be comprised of subjective (multiple choice, matching, true/false) questions and short-answer essays. In addition, exams may incorporate a take-home portion. Exam questions will be drawn from lecture, textbook readings, visual presentations, films, guest speakers and classroom discussion.

Make-up Exams:

In the event that a student is absent from an exam, it is the student's responsibility to contact me within 24 hours after the test date for a make-up to be considered. Make-ups exams will be provided **IF THE STUDENT HAS A WELL-DOCUMENTED EXCUSE**.

Article Critique:

Each student is required to find a newspaper, scientific journal, or Internet article that relates to an example of how a weather or climate issue (s) happening in some area of the world effect society. For example, how might the weather effect the language spoken by the Inuit? Each student is to summarize the article and then provide a thorough critique of the article (e.g., any bias in reporting; relevant/scientific sources; etc.). In your summary, you should include some discussion of how the weather issue relates to the society within which it is occurring (or has occurred). Critiques are 5 % of each student's grade and should NOT be more than 3 pages in length (typed, 12 point font, double-spaced). Article critiques are due by the last day of class.

Discussion;

Many of the issues and topics presented in this course will be worthy of discussion and debate. Whether our own ideas ultimately change or remain the same, much of the material presented should spark considerable debate and discussion. You will note that class participation is part of your grade. This course will be somewhat oriented towards a discussion format, so constructive questions, comments, and insights are strongly encouraged (In fact, I hope to learn a great deal from you!).

Academic Honesty:

All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action; *NO QUESTIONS ASKED!* The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse

of resource materials. I suggest you read the Student Handbook regarding the official University policy regarding academic honesty.

Americans with Disabilities Act

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Counseling Center and talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. Note: No accommodation can be made until you register with the Counseling Center. Therefore, any student seeking accommodations should go to the Counseling Center and Services for Students with Disabilities in a timely manner and complete a form that will grant permission to receive special accommodations.

Religious Holy Days

If a student desires to be excused from class, assignment, or a test to participate in activities associated with a religious holy day, then the student must notify the instructor of each scheduled class that he/she will miss for religious reasons. In such cases, the student will be required to take the test or submit the assignment early—unless there are good reasons for not being able to do so and the instructor has agreed to those reasons.

Special Circumstances

If unusual circumstances arise during the semester, such as a medical problem, death in the family, etc., that adversely affects your attendance PLEASE **discuss this with me immediately and provide documentation**. Under these conditions, I will gladly do my best to accommodate your situation by excusing absences, allowing late work to be turned in within a reasonable time period, and so on. However, if you wait until after-the-fact, at the end of the semester, to let me know that you were experiencing these adverse circumstances, there is *nothing* I can do about it at that time. **I will not retroactively make accommodations and I will not give extra credit assignments to make up for grade deficiencies of any type.**

Visitors in the Classroom

Unannounced visitors to the classroom must present a current, official SHSU identification card to be permitted in the classroom. They must not present a disruption to the class by their attendance. If the visitor is not a registered student, it is at the instructor's discretion whether or not the visitor will be allowed to remain in the classroom. This policy is not intended to discourage occasional visiting of classes by responsible persons.

IMPORTANT: Final Remarks:

Hopefully we will all enjoy ourselves exploring weather and climate this semester. As mentioned above, I hope that everyone feels free and willing to ask questions, make comments, etc. However, the size of the class and the acoustics of the classroom will make it imperative that people refrain from engaging in casual conversations with one another. If you are talking to a neighbor it becomes very difficult for people around you to hear anything. Thus, I'm asking you ahead of time to **NOT** strike up conversations amongst yourselves (**AND DO NOT TALK ON THE PHONE – IN FACT TURN ALL CELL PHONES OFF WHEN ENTERING THE CLASSROOM!**). This behavior not only disrupts the learning experience, it is also disrespectful. If you have something to say about the course material, please share it with the rest of us. Otherwise, you should remain quiet. I reserve the right to remove anybody from the classroom that is being disruptive, which includes carrying on conversations.