

**GEOGRAPHY 405
H(3-2) Area III****Applied Climatology****Instructor: Lawrence Nkemdirim**

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TA (if applicable):

Office:

Office hours:

Phone:

e-mail:

Official Course Description:

Role played by weather and climate in determining environmental quality. Storms, floods, droughts and human adjustment to severe weather. Urban and rural climates, air pollution. Climate in agriculture and forestry. Implications of Canada's climate(s) for the nation's water resources, agriculture and forests.

Prerequisite:

Geography 305 or consent of the Department

Supplementary Fees: (*field trips etc*). N/A.**Course Content**

Climate near the ground is critical to life and its support systems. In the first part of the course we consider the major factors which determine that climate and their spatial and temporal distribution. They include solar, atmospheric and terrestrial radiation; surface and atmospheric moisture; and wind. In the second part, we apply the knowledge gained from the first part to environmental issues that affect human activity and the biosphere, their measurement, management, modeling and prediction. The issues include air quality, urban climates, human comfort and water resources. We also examine how climates can change due to human activities.

Required Texts : T.R. Oke – Boundary Layer Climates, Routledge

Supplementary Text: R.B. Stull – Meteorology Today for Scientists and Engineers, West Publishing Company.

Readings/Manual: Topics will be assigned from time to time and may require use of the Internet and the University library. Such topics are part of the course and students should expect to be tested on them.**Grading (Weighting)**

Course Components: Lab (45%): Labs will be assigned by the lab instructor bi-weekly.

2 mid terms (45%): The first term will be scheduled after class consideration of suitable dates. The second term will be held two weeks prior to the end of term

Final Quiz (10%): The last class of the term.

There is No Final Registrar Office scheduled exam.

Prerequisite: Geography 305

Supplementary Fees: *None*

Grading System

The official grading scheme of the university will be used (Course Information Section in the University Calendar):

A+	4.00	Outstanding performance
A	4.00	Excellent-superior performance, showing comprehensive understanding of subject
A-	3.70	↑
B+	3.30	
B	3.00	Good - clearly above average performance
B-	2.70	↑
C+	2.30	
C	2.00	Satisfactory performance – basic understanding of the subject
C-	1.70	
D+	1.30	
D	1.00	Minimal Pass-marginal performance
F	0	Fail - - poor performance

For additional detailed course information posted by the Instructor see Blackboard at:
<http://blackboard.ucalgary.ca/>

Plagiarism

Academic dishonesty is not an acceptable activity at the University of Calgary and students are **strongly advised** to read the Student Misconduct section in the University Calendar. Quite often, students are unaware of what constitutes academic dishonesty or plagiarism. The most common are 1) presenting another student's work as your own 2) presenting an author's work or ideas as your own without proper referencing and 3) using work completed for another course. This activity will not be tolerated in this course and students conducting themselves in this manner will be dealt with according to the procedures outlined in the calendar.

Disability Resource Centre Accommodations

It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodation and have not registered with the Disability Resource Centre, please contact their office at 220-8237. Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than fourteen (14) days after the start of this course.

Re: Posting of Grades and Picking-up of Assignments

- All assignments will be handles on Blackboard.
- Their own grades will be available to each student on Blackboard by password access. Grades will **not** be available at Geography's main office.

Contact Information for Student and Faculty Representation

- SU VP Academic Phone: 220-3911 and e-mail: suypaca@ucalgary.ca
- SU Faculty Rep. Phone: 220-3913 and e-mail: socialscirep@su.ucalgary.ca

Campus Safewalk

Campus Security, in partnership with the Students' Union, provides the Safewalk service, 24 hours a day, to any location on Campus including the LRT, parking lots, bus zones and University residences. Contact Campus Security at 220-5333 or use a help phone, and Safewalkers or a Campus Security officer will accompany you to your Campus destination.