

**GEOG 503 Fall 2004****Climate Change**

**Timetable** Lec # 1 MWF 08:00 ES 443 **Catalogue #** 2764

**Instructor: Shawn Marshall**

Office: ES 404

Office hours: MWF 09:15-10:30

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**TA (if applicable):**

Office:

Office hours:

Phone:

e-mail:

**Course Content**

The best description of this year's course offering is "Earth's climate system: Lessons from the past and implications for where we are heading." We will start with a review of the global climate system and its interconnected components (ocean, atmosphere, biosphere, cryosphere, biogeochemical cycles). This will include considerable focus on external climate forcings and internal climate feedback processes. We will then sweep over Earth's incredible paleoclimatic history, from climates of the deep past (e.g. snowball Earth) to the Pleistocene Ice Age to the more subtle recent climate excursions of the Medieval warm period and the little ice age. Ice Ages are fascinating so we will have a bit of a special focus on glaciers, ice sheets and ice core paleoclimatology. The last few weeks of the class will be spent on 20<sup>th</sup> century climate change, forecasts for this century, and a general discussion of natural vs. anthropogenic change.

**Blackboard:** Online at <http://blackboard.ucalgary.ca/>

**Required Text:** Earth's Climate, Past and Future (W.F. Ruddiman)

<b>Grading</b>	Midterms (two)	30 %
	Problem Sets (two)	30 %
	Final Exam	40 %

The final examination will be scheduled by the Registrar's Office.

It is not essential to pass all elements/components to pass the course as a whole.

**Prerequisite:** GEOG 305

**Grading System**

A+	94-100	Outstanding performance
A	86-94	Excellent-superior performance; comprehensive understanding of subject
A-	82-86	↑
B+	78-82	↑
B	74-78	Good - clearly above average performance
B-	70-74	↑
C+	67-70	↑
C	63-67	Satisfactory performance – basic understanding of the subject
C-	60-63	
D+	55-60	
D	50-55	Minimal Pass-marginal performance
F	< 50	Fail - - poor performance

## **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.

### **Re: Posting of Grades and Picking-up of Assignments**

- Assignments will be handed back only in class or by the Professor at pre-arranged time(s).
- To receive your assignment back via mail, please include an appropriately sized self-addressed, stamped envelope with your assignment when handing in to the professor.
- Posting of grades will be at the discretion of each Professor and, if posted, they will be scrambled. 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](mailto:suypaca@ucalgary.ca)
- SU Faculty Rep. Phone: 220-3913 and e-mail: [socialscirep@su.ucalgary.ca](mailto: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.