GEOG 373

Applied Climatology

Spring 2015

Classes: Tues/Wed, 11:30 – 12:20 in Cornett Building B143

Labs: (Section A01): Mon 12:00 – 13:50 Clearihue A010
      (Section A02): Wed 14:30 – 16:20 Clearihue A010
      (Section A03): Thur 14:30 – 16:20 Clearihue A010

Professor: David Atkinson
Office: SSM B120
email: datkinso@uvic.ca   Lab Instructors:
                               TA office hours: to be announced
                                     Chris Krasowski – section A01
                                     Norman Shippee – section A02

Atkinson office hours: Tues 13:30-14:30 and Thurs 10:00-11:00,
    or by appointment (email or call 7332)

Introduction:

"A study of the application of physical principles to practical problems in climatology and the reciprocal interaction between climate and human activiti

they can be more directly applied to many questions in daily life. The mechanisms by which these sorts of analyses are conducted are also covered. *The manis latory text.* Readings from the text and elsewhere will be regularly assigned. The course will generally follow these readings, and you should keep up with them. In class we will emphasize certain topics.

Course Mission:

This course seeks to equip you with an understanding of how climate state at the regional scale and how it interacts with other natural and human parameters/features to allow you to:

a) utilize state of the art analyses and tools to answer sophisticated questions about how climate affects certain sectors (e wildland fire primarily), and

b) engage a planning process as a "climatic analysis needs" specialist.

Learning Objectives:

1. Identify the basic climate controls, large scale and small scale, that act upon a given location.

2. Explain how these climate controls work to create local scale climate.

3. List various quality

Tentative course outline

This is our objective but timings and topics may change as we see how rapidly we progress.

Wk	Date	Lecture Subject	Exam	Lab	Module
1	T Jan 6	Course intro and structure concept map presentation		No lab	Process
	W Jan 7	Process I: Radiation		No lab	
2	T Jan 13	Process II: Pressure and winds		SAGA 1	
	W Jan 14	Process III: Storms, advection concepts		SAGA 1	
3	T Jan 20	Process IV: Local modifiers		SAGA 2	
	W Jan 21	Process overflow, idea of other factors beyond meteorology		SAGA 2	
4	T Jan 27	Process module test	Test 1	No new lab	Information
	W Jan 28	Information I: Data gathering		No new lab	
5	T Feb 3	Information II: Data analysis I linear stats, error, extremes		Excel 1	
	W Feb 4	Information III: Data analysis II spatial contouring, stats		Excel 1	
6	T Feb 10	Reading week – no class		No new lab	
	W Feb 11	Reading week – no class		No new lab	
7	T Feb 17	Information IV: Scale concepts, station representativeness		Excel 2	
	W Feb 18	Information V: Modeling		Excel 2	
8	T Feb 24	Information module test	Test 2	CWFM	Application
	W Feb 25	Application I: Wild fire		CWRM	
9	T Mar 3	Application I: Wild fire		CWFM	

laptop, tablet, or mobile device will remind you and provide you with more detailed information nearer the time but please be thinking about this important activity during the course.

Undergraduate Grading**

Passing Grades	Description
A+	Exceptional, outstanding and excellent
A	
A-	