

GEOGRAPHY 321-001

Meteorology

Instructor: Mark Coté

2018 Winter

Room Cl. 325.3

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Class Timetable: 1730Z - 1845Z (11:30 AM - 12:45 PM) Tuesday & Thursday

Text: C. Donald Ahrens, Peter L. Jackson and Christine E. J. Jackson. 2016.
Meteorology Today 2nd Canadian. Nelson. ISBN -13: 9780176530792

Products from internet sources (URLs available on UR Courses)

<i>Grading:</i>	Weather briefing (pass/fail)	15% (mandatory)
	In class and take home exercises (approx. 9)	45%
	Final exam (April 24 th , 2 PM)	40%

- NOTE:**
- (1) A student who does not receive a grade for a weather briefing or final exam will be assigned a grade of NP for the course.
 - (2) The grades from 2 of your exercises will be excluded from consideration. By default, these will be your two lowest grades (or missed exercises).

Description:

This is an introduction to the atmospheric science of meteorology. Topics examined may include, but not be limited to: the nature and behaviour of the atmosphere, especially the lower atmosphere, circulations and interactions at the synoptic and mesoscales, and precipitation processes. We will follow the text closely in some sections, not so much in others. Whenever possible, special reference will be made to current weather affecting the prairies. It is expected that practical experience will be gained in the use of operational and forecast tools in lecture and lab.

Tentative Schedule:

<u>Week</u>	<u>Topics</u> (corresponding Text Chapter)
1	Introduction to Synoptic Meteorology
3	Nature and composition of the atmosphere (1)
4	Radiation, vertical structure of the atmosphere (2,3)
5	Humidity (4)
6	Clouds, Stability (5,6)
7	Midterm Break (February 19-23, inclusive)
8	Precipitation processes (7)
9	Forces in the atmosphere (8)
10	Air masses, fronts (11)
11	Forecasting (15)
13	Circulations (Global and Mesoscale) (9,10)