

Course Outline

Instructor: Dr. Adam Cornwell Office: RC 2006D acornwel@lakeheadu.ca

Lab Instructor: Jason Freeburn Office: RC 2004 jtfreebu@lakeheadu.ca

Course Objectives

This course gives a general introduction to meteorology and climatology. Meteorology topics include energy balance in the atmosphere, moisture and cloud development in the atmosphere, atmospheric dynamics, small and large scale circulations, storms and cyclones, and weather forecasting. Climatology topics include the interaction between the atmosphere and oceans over long time periods, climate classification, and the potential for climatic change.

Text: Ahrens, Jackson and Jackson, 2011. *Meteorology Today, 1st Canadian Edition* (Nelson Education).

Manual: Cornwell and Freeburn, 2012. *Climatology Manual* (Thunder Bay: Lakehead University Department of Geography).

Evaluation Scheme and Schedule:

Lab 1	Jan. 28/29	5
Lab 2	Feb. 4/5	5
Lab 3	Feb. 11/12	5
Lab 4	Feb. 25/26	5
Midterm Quiz	Feb. 27	10
Lab 5 – Lab Quiz	Mar. 4/5	10
Lab 6 – Group Project	Mar. 18/19 & 25/26	15
Lab 7	Apr. 8/2	5
Final Examination	TBA	40

Lecture Times and Place

Monday and Wednesday: 4:30 – 5:30 (BB 1075)

Lab Times and Place

Monday: 8:30 – 10:30 / Tuesday: 12:30 – 2:30 (RC 2003)