

**GPHY 209 – Weather and Climate**

<b>Contact Time</b>	Two 1.5 hour lectures per week
<b>Format</b>	Lectures and assignments
<b>Class Assessment</b>	Assignments – 50% Exams – 50%

**COURSE OVERVIEW**

This course discusses the fundamental processes related to the study of the earth's weather systems. It is intended both for students who have an interest in the favourite topic of conversation of most Canadians but also for those who will pursue careers in environmental fields. Emphasis will be placed on atmospheric moisture, temperature and wind relationships resulting in cloud formation and precipitation. Students are assumed to be able to handle basic concepts in physics but the course material is taught with a focus on understanding the concepts rather than through equations.

**COURSE TOPICS**

Topics will include atmospheric properties (structure and motion) and thermodynamics (stability, heat and moisture); clouds and precipitation; air masses and fronts; mid-latitude weather systems and severe weather.

**COURSE TEXTBOOK**

Ross, Sheila Loudon, *Weather and Climate; An Introduction* Third Edition, Oxford.