

2025 ENSC 201 Schedule (updated)

NOTE: Schedules are subject to change with notification.

Week / Date (Mon of the week)	Lecture & Weather Project Topics <i>Weekly Lecture reading quizzes and activities worth 12%.</i>	Laboratory & Weather Project Topics
1 / Jan 6	Course introduction. The atmosphere. Energy. Learn how to classify & recognize clouds. <i>Read Chapter 5 (pages 135 – 150). Review cloud chart (end of the text)</i>	Lab 1: Quantitative Analysis Skills & Radiation (2%) Lab 1: 1 st turn-in WxProj: Using Max/Min Thermometers; Sky Condition & Cloud Outside briefly – dress appropriately
2 / Jan 13	Radiation terms & measurement. Radiation Laws. Shortwave & Longwave radiation.	Lab 2: Radiation Measurement (2%) Lab 2: 1 st turn-in Lab 1: 2 nd turn-in WxProj: Observing /Measuring Wind; Observing Cloud Outside most of the lab – dress appropriately
3 / Jan 20	Net radiation. Energy balance. Global climate. WxProj: Introduction to the Weather Observation & Analysis Project	Lab 3: Energy & Water Budgets (2%) Lab 3: 1 st turn-in Lab 2: 2 nd turn-in Lab 1: returned WxProj: Measuring Precipitation; Setting WxProj Observation Schedule
4 / Jan 27	Water balance. Atmospheric moisture – concepts & measurements.	Lab 4: Atmospheric Humidity (2%) Lab 4: 1 st turn-in Lab 3: 2 nd turn-in Lab 2: returned WxProj: Measuring Humidity; Confirm Wx Project Roof-top Observation Schedule Outside....
5 / Feb 3	Atmospheric pressure. Hydrostatic law & its implications. Air masses, fronts.	Lab 5: Atmospheric Pressure (2%) Lab 5: 1 st turn-in Lab 4: 2 nd turn-in Lab 3: returned WxProj: Barometer Measurements, Calculations & Data Collection Practice Run – Outside...
Wed Feb 5 during lecture: Course Midterm: lecture, lab, WxProj (13%)		
6 / Feb 10	Middle-latitude Cyclones. Weather maps. Wx Proj: Data Collection Mon to Thu: (6%). Remember your observation time, partner meeting place, key returns. Complete: Roof-top Observations (2%); Weather Diary (2%); Electronic Synoptic Data Collection (1%); Teamwork Evaluation (1%) Due by 10 am Friday Feb 14 in your dropbox: Personal weather diary, completed teamwork evaluation (on paper), & collected electronic data (on a USB key), submitted in a properly labelled, sealed ziplock bag.	Lab 6: Weather Maps & Analysis (2%) Lab 6: 1 st turn-in Lab 5: 2 nd turn-in Lab 4: returned WxProj: Interpreting Weather Maps;
Feb 17	Family Day (Mon) & Mid-Semester Break – no classes Feb 17 – Feb 21	
7/ Feb 24	Atmospheric stability & cloud formation. Air pollution.	WxProj: Data Quality Control, produce Appendix 2, (1%) Bring: your laptop or use lab computers. Appendix 2 submitted Lab 6: 2 nd turn-in Lab 5, Collected WxProj data: returned
8 / Mar 3	Condensation, cloud & precipitation formation. Wx Proj: How to write a scientific report. <i>Collected Wx Proj data returned in Labs or here</i>	WxProj: Time Series Graphing, produce your report graphs (1%) Sign-up for Report outline meeting times Lab 6: returned Appendix 2 returned
9 / Mar 10	Forces in the atmosphere. Atmospheric dynamics & wind. Jet streams, upper-level patterns.	WxProj: Report Outline Interview Meetings (2%) Bring prepared WxProj outline & resources for discussion
10 / Mar 17	Atmosphere / Greenhouse effect. Global climate & climate change.	No labs – work on Wx Project
11 / Mar 24	Stratospheric ozone. Tropical cyclones.	No labs – work on Wx Project
12 / Mar 31	Summer and Winter Severe weather. Exam prep & course review.	No labs
WxProj Report Due: Tue Apr 1 at 4 pm in your drop box & electronically on Moodle (20%). Late reports lose 20% per day (including weekends & holidays) staring after the due time.		