



EESA09H3 – Wind

In-Person and Web option/Asynchronous (L30 and L01)

Instructor: Ana Zaknic-Catovic

Email: ana.zaknic.catovic@utoronto.ca (Please read the email policy)

Office Hours:

In-Person: Environmental Science & Chemistry Building, EV 340

Thursdays: 4:30 pm to 5:30 pm (September 15, to Dec 1, 2022)

Teaching Assistant: Lamees Shah

Email: lamees.shah@mail.utoronto.ca

Online Office Hours: TBA

Lectures:

In-Person: Humanities Wing, HW 216

Thursdays: 6:00 pm-9:00 pm

Online Asynchronous: q.utoronto.ca

Course Description

A survey of the science, history, and applications of wind. Topics include storms including hurricanes, tornadoes, and midlatitude cyclones, global circulation, local circulations, measurement of winds, the impact of winds on land surfaces, wind power, winds and pollution, historical and literary winds, and contemporary ways to look at the actions of wind in our society through various lenses. No prior knowledge of environmental science is required.

Tentative Course Schedule

Introduction: The big picture	Sep 8	Week 1
Science of wind	Sep 15	Week 2
Global wind circulation	Sep 22	Week 3
Synoptic weather phenomenon 1: Hurricanes	Sep 29	Week 4
Synoptic weather phenomenon 2: Midlatitude cyclones	Oct 6	Week 5
Reading week		Week 6
Synoptic weather phenomenon 3: Thunderstorms and tornadoes	Oct 20	Week 7
Midterm (tentative)		Week 7/8
Synoptic weather phenomenon 4: Other storms	Oct 27	Week 8
Wind in your neighborhood	Nov 3	Week 9
Measuring the wind in the atmosphere	Nov 10	Week 10
Wind as a driver of pollutants	Nov 17	Week 11
Wind power	Nov 24	Week 12
Changing wind with climate change	Dec 1	Week 13



Evaluation Scheme

Participation (quizzes + participation assignments) - 20%

Contemporary analysis of wind-related issues - 10%

Midterm Test - 25%

Final Exam - 45%

Quizzes will be held via Quercus starting on September 19. Weekly quizzes will cover materials from the previous lecture. There are no makeup quizzes. Participation opportunities will be available to a maximum of 5 marks. All participation assignments will be submitted via Quercus. Details on quizzes and participation will be discussed during lectures and instruction will be posted on Quercus.

Course Reading Materials:

There are no textbooks required for this course (reading materials will be posted on Quercus).

Midterm

Week of October 3rd or 17th (tentative). Time and place to be announced.

I expect all students to write the midterm exams except under the most severe and exceptional circumstances.

If, for some extraordinary reason, you do miss a midterm, please notify me within 24 hours of the exam in person or by email. A non-vague note from a doctor will be required on the **U of T medical form**.

Midterm and Final Exam Format

The same format for both exams, only differing in quantity.

1. True or false questions and multiple-choice questions
2. Short answer/descriptive questions
3. Special topics – contemporary wind issue analysis

PLEASE NOTE THAT ALL MATERIALS USED DURING LECTURES OR USED FOR PARTICIPATION OUTSIDE OF LECTURES AND ALL ASSIGNED READINGS ARE IMPORTANT FOR MIDTERM AND FINAL EXAMS.

Emails

I welcome communication by email concerning urgent issues related to the course (please include EESA09 in the email subject). However, any emails on the term test or final exam contents, and questions regarding participation (information already found in the syllabus or on Quercus), will be disregarded.

I encourage you to discuss your concerns/questions in person during office hours. Additional office hours will be assigned to discuss the term test results.

Accessibility

Students with diverse learning styles and needs are welcome in this course. I strive to create a classroom environment that is welcoming and inclusive and have considered this as I designed the course. However, if you still find you need accommodations due to a disability/health consideration please feel free to approach me and/or the AccessAbility Services Office as soon as possible.

AccessAbility Services staff (located in Rm AA142, Arts and Administration Building) are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations at 416-287-7560 or email ability.utsc@utoronto.ca. the sooner you let me know your needs the quicker I can assist you in achieving your learning goals in this course.

Academic Integrity

Academic Integrity is essential to the pursuit of learning and scholarship in a university, and to ensuring that a degree from the University of Toronto is a strong signal of each student's individual academic achievement. As a result, the University treats cases of cheating and plagiarism very seriously.

The University of Toronto's Code of Behaviour on Academic Matters (<http://www.governingcouncil.utoronto.ca/policies/behaveac.htm>) outlines the behaviours that constitute academic dishonesty and the process for addressing academic offences. Potential offences include, but are not limited to:

In papers and assignments:

- Using someone else's ideas or words without appropriate acknowledgment.
- Submitting your own work in more than one course without the permission of the instructor.
- Making up sources or facts.
- Obtaining or providing unauthorized assistance on any assignment.

On tests and exams:

- Using or possessing unauthorized aids.
- Looking at someone else's answers during an exam or test.
- Misrepresenting your identity.

In academic work:

- Falsifying institutional documents or grades.
- Falsifying or altering any documentation required by the University, including (but not limited to) doctor's notes.

All suspected cases of academic dishonesty will be investigated following procedures outlined in the Code of Behaviour on Academic Matters.

If you have questions or concerns about what constitutes appropriate academic behaviour or appropriate research and citation methods, you are expected to seek out additional information on academic integrity from your instructor or from other institutional resources (see <http://utoronto.ca/academicintegrity/>).



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Fines and penalties for copyright infringement are significant.

Equity, Diversity, and Inclusion

The University of Toronto is committed to equity, human rights, and respect for diversity. All members of the learning environment in this course should strive to create an atmosphere of mutual respect where all members of our community can express themselves, engage with each other, and respect one another's differences. U of T does not condone discrimination or harassment against any persons or communities.