This course provides an introduction to wind effects on structures, including both quasi-static and dynamic approaches to the prediction of wind loads on structures, and how these are implemented using both the National Building Code of Canada (NBCC) and ASCE 7-16. The general objectives of the course are for the student to become able to:

- assess the wind climate and predict design wind speeds using extreme value theory from historical wind speed records;
- describe the mean and turbulent wind structure of the atmospheric boundary layer over different terrain;
- describe the aerodynamic forces acting on bluff bodies and the factors that affect them;
- calculate the wind loads acting on a structure using either quasi-static or dynamic approaches, and to select an appropriate method to use given a particular class of structure;
- assess the impact of internal pressures on external wind loads; and
- apply the quasi-static approach as implemented in both the NBCC and ASCE 7-16 to a simple structure.

**Land Acknowledgment:**
Western University recognizes that its campus is situated on First Nations territory. The Great Lakes woodland region of Turtle Island has been home to many Nations over centuries and at different times, including the Anishinaabek, Haudenosaunee, Lunaapéewak and Huron-Wendat peoples. The three local First Nations communities in closest proximity to Western are:
- Chippewas of the Thames First Nation;
- Oneida Nation of the Thames; and
- Munsee-Delaware Nation.

For some time, the Dish with One Spoon Covenant Wampum served as an agreement between the Haudenosaunee and Anishinaabek for sharing hunting territory, thus ensuring the viability of this land into the future. After contact, Treatymaking between the Anishinaabek and Britain took place. In the London area, there are several Treaties including the Treaty 6 London Township, Treaty 7 Sombra Township and Treaty 21 Longwoods. Today, London and the region are home to a diverse Indigenous population including First Nations, Métis and Inuit people. By recognizing Indigenous peoples’ historic and present relationships to the land and London, Ontario, Western makes explicit Indigenous peoples’ ongoing presence and their rights to self-determination. Please visit: [https://indigenous.uwo.ca/](https://indigenous.uwo.ca/)

**Calendar Copy:**
An introduction to wind effects on structures. Topics covered include wind climate, the atmospheric boundary layer and its description, bluff body aerodynamics and aeroelastic effects, quasi-static and dynamic approaches to wind loads on structures, internal pressures, and code approaches to wind loads on structures. (0.5 course)

**Antirequisites:**
None
Prerequisites:
CEE 2224, Statistical Sciences 2141A/B, or their equivalents

Note: It is the student's responsibility to ensure that all Prerequisite and Corequisite conditions are met or that special permission to waive these requirements has been granted by the Faculty. It is also the student's responsibility to ensure that they have not taken a course listed as an Antirequisite. The student may be dropped from the course or not given credit for the course towards their degree if they violate the Prerequisite, Corequisite or Antirequisite conditions.

Contact Hours:
2 lecture hours/week; 2 tutorial hours/week; (recommended additional personal study - 3 hours).

Attendance at the tutorial session is mandatory.

Key Sessional Dates:
- Classes resume: January 8, 2024
- Winter Reading Week: February 17 – 25, 2024
- Good Friday: March 29, 2024
- Classes end: April 8, 2024
- Exam period: April 11 – 30, 2024

Contingency plan for an in-person class pivoting to 100% online learning
In the event of a COVID-19 resurgence during the course that necessitates the course delivery moving away from face-to-face interaction, affected course content will be delivered entirely online, either synchronously (i.e., at the times indicated in the timetable) or asynchronously (e.g., posted on OWL for students to view at their convenience). The grading scheme will not change. Any remaining assessments will also be conducted online as determined by the course instructor.

Instructor:
Dr Craig Miller, P.Eng.; SEB 2084; e-mail: cmiller@eng.uwo.ca.
Office hours: By appointment

CEE office: civil@uwo.ca

Reference Textbook:
There is no specific textbook for this course.

Other References:


*Advanced Structural Wind Engineering*, edited by Yukio Tamura and Ahsan Kareem, Springer, 2013 (advanced text, available online through Western Libraries - see course OWL site for details on how to access).
Students are responsible for checking the course OWL site (http://owl.uwo.ca) on a regular basis for news and updates. This is the primary method by which information will be disseminated to all students in the class.

All course material will be posted to OWL: http://owl.uwo.ca.

If students need assistance with the course OWL site, they can seek support on the OWL Help page. Alternatively, they can contact the Western Technology Services Helpdesk. They can be contacted by phone at 519-661-3800 or ext. 83800.

**Units:**
Both SI and FPS unit systems may be used in lectures, tutorials and examinations.

**Specific Learning Objectives:**

1. **Introduction [KB4]**
   a) Recognize the various components of the Davenport wind loading chain, and quantify their individual contributions to the wind loads acting on a structure

2. **Wind Climate [KB4]**
   a) Describe the features of the general atmospheric circulation
   b) Differentiate between the different types of wind storms likely to be of interest to a designer, including extra-tropical and tropical cyclones, thunderstorms, and tornadoes
   c) Derive a wind rose for a specific site using historical wind speed records
   d) Calculate the design wind speed for a given return period from historical wind speed records using extreme value theory

3. **Atmospheric Boundary Layer (ABL) [KB4]**
   a) Calculate gradient and geostrophic wind speeds from atmospheric pressure distributions
   b) Derive the theoretical mean velocity distribution within the ABL
   c) Compare the theoretical and 'power law' velocity distributions
   d) Quantify the turbulent structure of the ABL in space and time using empirical data for different terrain
   e) Calculate boundary layer growth due to abrupt changes in terrain and how this impacts design wind speeds for a specific site
   f) Determine the relationship between gust and mean wind speeds - gust factor approach
   g) Discuss the qualitative differences in wind structure for different storms i.e. thunderstorms, hurricanes and tornadoes

4. **Bluff Body Aerodynamics [KB4, I3, ITW2]**
   a) Describe the basic flow pattern about simple structural shapes, such as flat plates and rectangular bodies, in both uniform and boundary layer flows
   b) Identify and quantify the factors that affect the flow patterns and resulting forces acting on simple structural shapes
   c) Quantify the effects of turbulence on the mean and fluctuating forces acting on simple shapes, and how these effects are captured through of an aerodynamic admittance function
   d) Recognize the impact of other aeroelastic phenomena, such as vortex shedding, galloping and flutter, and the conditions under which these effects may be significant

5. **Quasi-static and Dynamic Approaches to Wind Loads [KB4]**
   a) Derive the quasi-static loading equation, and recognize the conditions under which this approach can be used to calculate the wind loads on a simple structure
b) Describe the underlying theory behind the dynamic approach to wind loads, and importance of the resonant response in the calculation of wind loads on several classes of structure, including tall buildings and long-span bridges.

c) Calculate the response of a simple single-degree of freedom structure using the dynamic approach to wind loads.

6. **Internal pressures** [KB4]
   a) Recognize the impact of internal pressures on the net wind loads acting on a structure, and determine the particular combinations of positive and negative external and internal pressures that lead to the worst case load effects.

7. **Codification of Wind Loads using either the NBCC or ASCE 7-16** [KB4, I3, ET2, ITW2]
   a) Calculate external design pressures using either the NBCC or ASCE 7-16 simple procedures including exposure, gust and pressure factors.
   b) Calculate internal design pressures using either the NBCC or ASCE 7-16 provisions.
   c) Calculate design wind loads and structural load effects for low-rise buildings.
   d) Calculate peak wind pressures for cladding/envelope design.
   e) Recognize the structure types where explicit dynamic analyses are required for wind load effects using either the NBCC or ASCE 7-16.

The instructor may expand on material presented in the course as appropriate.

**General Learning Objectives:**

<table>
<thead>
<tr>
<th>Knowledge Base</th>
<th>Engineering Tools</th>
<th>Impact on Society</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problem Analysis</td>
<td>Team Work</td>
<td>T(A) Ethics and Equity</td>
</tr>
<tr>
<td>Investigation</td>
<td>T(A) Communication</td>
<td>Economics and Project Management</td>
</tr>
<tr>
<td>Design</td>
<td>Professionalism</td>
<td>Life-Long Learning</td>
</tr>
</tbody>
</table>

**Evaluation:**

The final course mark will be determined as follows:

- Assignments: 20%
- Group projects: 20%
- Final assessment: 60%

Total: 100%

**Note:** Students must pass the final examination to pass this course. Students who fail the final examination will be assigned the aggregate mark, as determined above, or 48%, whichever is less. Students who have failed this course previously must repeat all components of the course. No special permissions will be granted enabling a student to retain laboratory, assignment or test marks from previous years. Previously completed assignments and laboratories cannot be resubmitted.

1. **Quizzes and Examinations:**

A three-hour written final examination will be held during the regular December examination period.

Except for the use of a calculator, all quizzes and the final examination are closed book. Only approved programmable calculators are permitted in the final examination and quizzes. Students should consult
the list of approved calculators posted outside the Civil and Environmental Engineering Department Office. Formula sheets and other required reference material will be provided as part of the mid-term quiz and final examination papers.

2. **Weekly Assignments:**
   Individual assignments will be given on a semi-weekly basis. Assignments are to be submitted prior to the due date using Gradescope accessed through the course OWL site. Late assignments will be assessed a penalty of 10% per day, to a maximum of 4 days, after which they will receive a mark of zero. Extensions are to be negotiated with the course instructor, not the teaching assistants.

3. **Group Projects:**
   Two group projects will be given as part of the course. The first of these will involve examining aspects of the pressure distribution on the sides and top of a low-rise building/cube based on wind tunnel tests, while the second will examine aspects of the design pressures acting on a low-rise building and how these vary by wind direction. Group reports for both projects are to be submitted prior to the due date using Gradescope accessed through the course OWL site. Late reports will be assessed a penalty of 10% per day, to a maximum of 4 days, after which they will receive a mark of zero. Extensions are to be negotiated with the course instructor, not the teaching assistants.

4. **Use of English:**
   In accordance with Senate and Faculty Policy, students may be penalized up to 10% of the marks on all assignments, tests, and examinations for improper use of English. Additionally poorly written work with the exception of the final examination may be returned without grading. If resubmission of the work is permitted, it may be graded with marks deducted for poor English and/or late submission.

**Cheating:**
University policy states that cheating is a scholastic offence. The commission of a scholastic offence is attended by academic penalties that might include expulsion from the program. If you are caught cheating, there will be no second warning.

For more information on scholastic offenses, please see:
http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf

**Attendance:**
Any student who, in the opinion of the instructor, is absent too frequently from class, laboratory, or tutorial periods will be reported to the Dean (after due warning has been given). On the recommendation of the Department concerned, and with the permission of the Dean, the student will be debarred from taking the regular final examination in the course.

**Accommodation and Accessibility:**
**Religious Accommodation**
When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request accommodation for their absence in writing at least two weeks prior to the holiday to the course instructor and/or the Academic Counselling office of their Faculty of Registration. Please consult University's list of recognized religious holidays (updated annually) at

Accommodation Policies
Students with disabilities are encouraged to contact Accessible Education, which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The policy on Academic Accommodation for Students with Disabilities can be found at:


Conduct:
Students are expected to arrive at lectures on time, and to conduct themselves during class in a professional and respectful manner that is not disruptive to others. Please turn off your cell phone before coming to a class, tutorial, quiz or exam. On the premises of the University or at a University-sponsored program, students must abide by the Student Code of Conduct:
http://www.uwo.ca/univsec/board/code.pdf

Sickness and Other Problems:
If you are unable to meet a course requirement due to illness or other serious circumstances, please follow the procedures below.

Assessments worth less than 10% of the overall course grade:
Extensions will be given for missed assignments on receipt of valid medical or supporting documentation to the Academic Counselling Office of your Faculty of Registration as soon as possible.

Assessments worth 10% or more of the overall course grade:
For work totalling 10% or more of the final course grade, you must provide valid medical or supporting documentation to the Academic Counselling Office of your Faculty of Registration as soon as possible. For further information, please consult the University’s medical illness policy at


The Student Medical Certificate is available at


If you miss the mid-term quiz the amount that the quiz is worth will be reweighted to the final exam, a make-up quiz will not be offered.

Absences from Final Examinations
If you miss the Final Exam, please contact Western Engineering Undergraduate Services as soon as possible. They will assess your eligibility to write the Special Examination.

You may also be eligible to write the Special Exam if you are in a “Multiple Exam Situation” (e.g., more than 2 exams in 23-hour period, more than 3 exams in a 47-hour period).

If a student fails to write a scheduled Special Examination, the date of the next Special Examination (if granted) normally will be the scheduled date for the final exam the next time this course is offered. The maximum course load for that term will be reduced by the credit of the course(s) for which the final examination has been deferred. See the Academic Calendar for details (under Special Examinations).
Note: missed work can only be excused through one of the mechanisms above. Being asked not to attend an in-person course requirement due to potential COVID-19 symptoms is not sufficient on its own.

Academic Policies:
The website for Registrarial Services is http://www.registrar.uwo.ca.

In accordance with policy, https://www.uwo.ca/univsec/pdf/policies_procedures/section1/mapp113.pdf, the centrally administered e-mail account provided to students will be considered the individual’s official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at their official university address is attended to in a timely manner.

Scholastic offences are taken seriously, and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site:


Assignments that require the submission of MATLAB scripts will be checked using MOSS or similar software as supported by Gradescope.

Support Services:
Please visit the Western Engineering Undergraduate Services webpage for information on adding/dropping courses, academic considerations for absences, appeals, exam conflicts, and many other academic related matters: https://www.eng.uwo.ca/undergraduate/index.html

Students who are in emotional/mental distress should refer to Mental Health@Western (https://uwo.ca/health/) for a complete list of options about how to obtain help.

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at


To connect with a case manager or set up an appointment, please contact support@uwo.ca.

Please contact the course instructor if you require lecture or printed material in an alternate format or if any other arrangements can make this course more accessible to you. You may also wish to contact Accessible Education at

http://academicsupport.uwo.ca/accessible_education/index.html if you have any questions regarding accommodations.

Learning-skills counsellors at the Student Development Centre (https://learning.uwo.ca) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling.
Western University is committed to a thriving campus as we deliver our courses in the mixed model of both virtual and face-to-face formats. We encourage you to check out the Digital Student Experience website to manage your academics and well-being: https://www.uwo.ca/se/digital/.

Additional student-run support services are offered by the USC, https://westernusc.ca/services/.

**Course Breakdown:** (Values given in accreditation units)
25% Math; 75% Engineering Science.

The attached document “INSTRUCTIONS FOR STUDENTS UNABLE TO WRITE TESTS OR EXAMINATIONS OR SUBMIT ASSIGNMENTS AS SCHEDULED” is part of this course outline.
STATEMENT ON GENDER-BASED AND SEXUAL VIOLENCE

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced gender-based or sexual violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts, here. To connect with a case manager or set up an appointment, please contact support@uwo.ca.

INSTRUCTIONS FOR STUDENTS UNABLE TO WRITE TESTS OR EXAMINATIONS OR SUBMIT ASSIGNMENTS AS SCHEDULED

If, on medical or compassionate grounds, you are unable to write term tests or final examinations or complete course work by the due date, you should follow the instructions listed below. You should understand that academic relief will not be granted automatically on request. You must demonstrate to your department (or the Undergraduate Services Office) that there are compelling medical or compassionate grounds that can be documented before academic relief will be considered. Different regulations apply to term tests, final examinations and late assignments. Please read the instructions carefully.

A. GENERAL REGULATIONS & PROCEDURES

1. All first-year students will report to the Undergraduate Services Office by submitting the Academic Consideration Request Form, for all instances.

2. If you are an upper year student and you are missing a test/assignment/lab or examination you will report the absence by submitting Academic Consideration Request Form. Absences worth LESS THAN 10% of your mark, will be processed by your department office. If your course work is worth 10% OR MORE of your final grade, your request will be processed by the Undergraduate Services Office.

3. Check the course outline to see if the instructor has a policy for missed tests, examinations, late assignments or attendance.

4. Documentation must be provided as soon as possible. If no one is available in your department office or the Undergraduate Services Office, leave a message clearly stating your name & student number and reason for your call. The department telephone numbers are given at the end of these instructions.

5. If you decide to write a test or an examination you should be prepared to accept the mark you earn. Rewriting tests or examinations or having the value of a test or examination reweighted on a retroactive basis is not permitted.

B. TERM/MIDTERM TESTS

1. If you are in first year and you are unable to write a midterm/term test, contact the Undergraduate Services Office, SEB 2097 PRIOR to the scheduled date of the test.

2. If you are an upper year student and you are unable to write a midterm/term test, inform your instructor PRIOR to the scheduled date of the test and request relief through the Academic Consideration Request Form. If the instructor is not available, leave a message for him/her at the department office. If the test is worth LESS THAN 10% of your mark, your request for relief will be processed by your department office. If the test is worth MORE THAN 10% of your final grade your request for relief will be processed by the Undergraduate Services Office.

3. Be prepared to attach supporting documentation to the Department Chair and/or the Undergraduate Services Office through the online form (see next page for information on documentation).

4. Discuss with the instructor if and when the test can be rescheduled. The approval of the Chair or the Undergraduate Services Office is required when rescheduling midterm/term tests.
C. **FINAL EXAMINATIONS**

1. If you are unable to write a final examination, contact the Undergraduate Services Office PRIOR TO THE SCHEDULED EXAMINATION TIME to report your absence using the Academic Consideration Request Form and request permission to write a Special Final Examination. If no one is available in the Undergraduate Services Office, leave a message clearly stating your name & student number.

2. Be prepared to provide the Undergraduate Services Office with supporting documentation (see next page for information on documentation) the next day, or as soon as possible (in cases where students are hospitalized). The following circumstances are not considered grounds for missing a final examination or requesting special examinations: common cold, headache, sleeping in, misreading timetable and travel arrangements.

3. In order to receive permission to write a Special Examination, you must obtain the approval of the Chair of the Department and the Associate Dean and in order to apply you must submit an "Application for a Special Exam" form. The Undergraduate Services Office will then notify the course instructor(s) and reschedule the examination on your behalf.

   **PLEASE NOTE:** It is the student's responsibility to check the date, time and location of the Special Examination.

D. **LATE ASSIGNMENTS**

1. Advise the instructor if you are having problems completing the assignment on time (prior to the due date of the assignment).

2. Be prepared to submit the Academic Consideration Request Form and provide documentation if requested by the instructor (see reverse side for information on documentation).

3. If you are granted an extension, establish a due date. The approval of the Chair of your Department (or the Assistant Dean, First Year Studies, if you are in first year) is not required if assignments will be completed prior to the last day of classes.

4. i) Extensions beyond the end of classes must have the consent of the instructor, the department Chair and the Associate Dean, Undergraduate Studies. Documentation is mandatory.

   ii) A Recommendation of Incomplete Form must be filled out indicating the work to be completed and the date by which it is due. This form must be signed by the student, the instructor, the department Chair and the Associate Dean, Undergraduate Studies.

E. **SHORT ABSENCES**

If you miss a class due to a minor illness or other problem, check your course outlines for information regarding attendance requirements and make sure you are not missing a test, laboratory or assignment. Cover any readings and arrange to borrow notes from a classmate.

F. **EXTENDED ABSENCES**

If you are absent more than one week or if you get too far behind to catch up, you should consider reducing your workload by dropping one or more courses. (Note drop deadlines listed below). You are strongly encouraged to seek advice from your Academic Counsellor in the Undergraduate Services Office.

G. **DOCUMENTATION**

If you consulted an off-campus doctor or Student Health Services regarding your illness or personal problem, you must provide the doctor with a Student Medical Certificate to complete at the time of your visit and then bring it to the Department (or the Undergraduate Services Office). This note must contain the following information: severity of illness, effect on academic studies and duration of absence. Regular doctor’s notes will not be accepted; only the Student Medical Certificate will be accepted.

**In Case of Serious Illness of a Family Member:** Provide a Student Medical Certificate to your family member's physician to complete and bring it to the Department (or the Undergraduate Services Office if you are in first year).

**In Case of a Death:** Obtain a copy of the death certificate or the notice provided by the funeral director's office. You must include your relationship to the deceased and bring it to the Department (or the Undergraduate Services Office if you are in first year).

**For Other Extenuating Circumstances:** If you are not sure what documentation to provide, ask the Departmental Office (or the Undergraduate Services Office if you are in first year) for direction.

**Note:** Forged notes and certificates will be dealt with severely. To submit a forged document is a scholastic offence (see below).
H. **ACADEMIC CONCERNS**

1. You need to know if your instructors have a policy on late penalties, missed tests, etc. This information may be included on the course outlines. If not, ask your instructor(s).

2. **You should also be aware of attendance requirements in some courses. You can be debarred from writing the final examination if your attendance is not satisfactory.**

3. If you are in academic difficulty, check out the minimum requirements for progression in the calendar. If in doubt, see your Academic Counsellor.

**Calendar References:** Check these regulations in your 2023 Western Academic Calendar available at [www.westerncalendar.uwo.ca](http://www.westerncalendar.uwo.ca).

**Absences Due to Illness:**
[https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_13](https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_13)

**Academic Accommodations for Students with Disabilities:**
[http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_10](http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_10)

**Academic Accommodations for Religious or Holy Days:**
[http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_16](http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_16)

**Course Withdrawals:**
[http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=6&SelectedCalendar=Live&ArchiveID=#Page_75](http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=6&SelectedCalendar=Live&ArchiveID=#Page_75)

**Examinations:**
[http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=5&SelectedCalendar=Live&ArchiveID=#SubHeading_78](http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=5&SelectedCalendar=Live&ArchiveID=#SubHeading_78)

**Scheduling of Term Assignments:**
[http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=5&SelectedCalendar=Live&ArchiveID=#SubHeading_78](http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=5&SelectedCalendar=Live&ArchiveID=#SubHeading_78)

**Scholastic Offences:**
[http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_20](http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=1&SelectedCalendar=Live&ArchiveID=#Page_20)

**Student Medical Certificate:**

**Engineering Academic Regulations:**
[http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=4&SelectedCalendar=Live&ArchiveID=#Page_86](http://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=4&SelectedCalendar=Live&ArchiveID=#Page_86)

**Note:** These instructions apply to all students registered in the Faculty of Engineering regardless of whether the courses are offered by the Faculty of Engineering or other faculties in the University.

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**Add Deadlines:**
- First term half course (i.e. “A” or “F”)  
  September 15, 2023
- Full courses and full-year half course (i.e. “E”, “Y” or no suffix)  
  September 15, 2023
- Second term half course (i.e. “B” or “G”)  
  January 16, 2024

**Drop Deadlines:**
- First term half course without penalty (i.e. “A” or “F”)  
  November 13, 2023
- Full courses and full-year half courses without penalty (i.e. “E”, “Y” or no suffix)  
  November 30, 2023
- Second term half or second term full course without penalty (i.e. “B” or “G”)  
  March 7, 2024

**Contact Information:**

<table>
<thead>
<tr>
<th>Undergraduate Services Office:</th>
<th>SEB 2097 Phone: 519-661-2130 E-mail: <a href="mailto:engugrad@uwo.ca">engugrad@uwo.ca</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical &amp; Green Process Engineering:</td>
<td>TEB 477 Phone: 519-661-2131 E-mail: <a href="mailto:cheugrad@uwo.ca">cheugrad@uwo.ca</a></td>
</tr>
<tr>
<td>Civil Engineering:</td>
<td>SEB 3005 Phone: 519-661-2139 E-mail: <a href="mailto:civil@uwo.ca">civil@uwo.ca</a></td>
</tr>
<tr>
<td>Computer, Electrical, Mechatronic Systems &amp; Software Engineering</td>
<td>TEB 279 Phone: 519-661-3758 E-mail: <a href="mailto:eceugrad@uwo.ca">eceugrad@uwo.ca</a></td>
</tr>
<tr>
<td>Integrated Engineering</td>
<td>ACEB 2410 Phone: 519-661-6725 E-mail: <a href="mailto:engcel@uwo.ca">engcel@uwo.ca</a></td>
</tr>
<tr>
<td>Mechanical Engineering:</td>
<td>SEB 3002 Phone: 519-661-4122 E-mail: <a href="mailto:mmeundergraduate@uwo.ca">mmeundergraduate@uwo.ca</a></td>
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</tbody>
</table>

Revised 06/25/2023