Reasoning and Critical Thinking
PHIL 1230A, Section 550, Summer Evening of 2020. May 4-June 19

1. Class Information:

Instructor: Dr. Jonathan P. Marsh
Email: jmash26@uwo.ca (preferred contact)
Meetings: Tuesdays and Thursdays, 6:30 pm - 9:30 pm (online). See sec 4 below.

Virtual office hours: by appointment
Course website: https://owl.uwo.ca/portal

2. Description:

We humans are supposed to be marked out from the rest of the animal kingdom by our distinctive learning capacities. Yet there are systematic problems with the way we reason — routed in unconscious biases, fallacies, illusions, inconsistencies, misinformation and a multitude of intellectual vices. The goal of this course is to help us get better at mitigating these cognitive shortcomings and, in turn, enhance our ability to reason. We pursue this aim with an eye towards forming more accurate beliefs and making better decisions.

Prerequisite(s): none.

Antirequisite(s): PHILOSOPHY 1000E, PHILOSOPHY 1200

3. Outcomes:

By the time we are finished, members of this class will
1. be able to categorize, diagram and assess arguments from virtually any discipline,
2. know how to detect and mitigate common forms of human irrationality (e.g. biases, fallacies and inconsistencies), and the various harms they can cause,
3. know where to look for good sources of information and how to distinguish these from bad sources,
4. be in the habit of employing various techniques and principles for rationally updating their beliefs,
5. have constructed intellectual rules or guidelines that improve their thinking and decision-making.

4. Methods:

This fully online course will contain a mixture of synchronous and asynchronous learning methods. It is expected that all synchronous (i.e. live) sessions or activities will take place at some point on Tuesday and/or Thursday evenings within the class meeting window mentioned above. Some will be brief; others will take longer. See the tentative schedule on OWL. Also see the participation ‘requirement’ below and the exemption for anyone who is unable to join our live sessions from different time zones.

5. Texts:

There are no textbooks for this course. Readings will be made available via OWL.

6. Requirements and Values:

| Participation | 15% | Good philosophy requires conversation. Consequently, in addition to prepared lectures materials that you will review on your own time, this course contains a number of live sessions (e.g. tutorials, workshops and/or dialogues), which will take place over Zoom. See OWL’s tentative schedule for details. |
|---------------|-----|Note: if you are working in a different time zone, and are unable to attend our live online sessions, please e-mail me during the first week of class. I would be pleased to accommodate you. |
| Test          | 10% | A brief take-home test is due, via OWL, on May 14 at 10:00 pm. Although I don’t expect it will take more than 30-45 minutes to complete, students will have access to the test 24 hours prior. The test will only cover material from unit 2.1. |
For this assignment, you will work, virtually, in small groups of 3-4 students. After receiving instructions, your group will record a video podcast, over Zoom, and submit it to me for a grade by May 21. The aim of this assignment is to help students see how dialogue with others, when enriched with course concepts, can enhance human rationality (specifically, rational belief change).

This exercise is designed to encourage you to think about how to think better. You’ll be constructing concrete rules for mitigating bias and avoiding fallacies that you are especially prone to. Detailed instructions, with a sample assignment, will be provided via OWL prior to the May 28 deadline.

Your take-home exam is due on June 19, 2020 at 10:00 pm. My prediction is that it will take you between 2 and 3 hours to complete. Students will, nonetheless, have access to the exam 24 hours prior.

Plagiarism detection software may be used in this course. Students are required to submit their written work in electronic form.

Grading Information and Explanation of Grades:
Each assignment will be accompanied with clear instructions. Students will be evaluated in accordance with how well they follow them. What follows is a university wide grade explanation:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
<th>Comment</th>
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<tbody>
<tr>
<td>A+</td>
<td>90-100</td>
<td>One could scarcely expect better from a student at this level</td>
</tr>
<tr>
<td>A</td>
<td>80-89</td>
<td>Superior work which is clearly above average</td>
</tr>
<tr>
<td>B</td>
<td>70-79</td>
<td>Good work, meeting all requirements, and eminently satisfactory</td>
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<tr>
<td>C</td>
<td>60-69</td>
<td>Competent work, meeting requirements</td>
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<tr>
<td>D</td>
<td>50-59</td>
<td>Fair work, minimally acceptable</td>
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<tr>
<td>F</td>
<td>below 50</td>
<td>Fail</td>
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</tbody>
</table>

For more info, go here: [http://www.westerncalendar.uwo.ca/2015/pg104.html](http://www.westerncalendar.uwo.ca/2015/pg104.html).

Dates & Topics:

Please note: the schedule below is approximate, and may be revised during the semester.

<table>
<thead>
<tr>
<th>Dates</th>
<th>Topics</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>May 5</td>
<td><strong>Unit 1. Groundwork</strong></td>
<td></td>
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<tr>
<td>May 7</td>
<td><strong>Unit 2. Obstacles to Reasoning Well</strong></td>
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<td>May 12 &amp; 14</td>
<td>2.1. Inconsistencies</td>
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<td></td>
<td>2.2. Biases &amp; Illusions</td>
<td>On May 14, your take-home test on Unit 2.1 is due via OWL. You will receive the test on May 13.</td>
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<tr>
<td>Date</td>
<td>Topic</td>
<td>Notes</td>
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<tr>
<td>May 19</td>
<td>2.3. Vices</td>
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<tr>
<td>May 21</td>
<td>2.4. Fallacies</td>
<td>On May 21, your <a href="#">rationality podcast</a> is due. Assignment instructions will be distributed to your group shortly beforehand.</td>
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<tr>
<td></td>
<td><strong>Unit 3. Reasoning &amp; Argumentation</strong></td>
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<tr>
<td>May 26 (i)</td>
<td>3.1. The Nature, Purpose &amp; Appropriate Domains of Argumentation</td>
<td></td>
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<tr>
<td>May 26 (ii)</td>
<td>3.2. Categorizing &amp; Diagraming Arguments</td>
<td></td>
</tr>
<tr>
<td>May 28</td>
<td>3.3. Constructing &amp; Evaluating Arguments</td>
<td>On May 28, your <a href="#">virtues &amp; rules assignment</a> is due via OWL.</td>
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<tr>
<td>June 2 &amp; 4</td>
<td><strong>Break Week: No virtual classes.</strong></td>
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<td></td>
<td><strong>Unit 4. Social Dimensions of Rationality &amp; Irrationality</strong></td>
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<td>June 9</td>
<td>4.1. Testimony &amp; Trust Part I (Novices &amp; Experts)</td>
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<td>June 11</td>
<td>4.2. Testimony &amp; Trust Part II (Echo Chambers, Media &amp; Advertising)</td>
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<td><strong>Unit 5. Risk &amp; Uncertainty</strong></td>
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<td>June 16</td>
<td>5.1. Assessing Risk &amp; Reasoning Under Uncertainty</td>
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<tr>
<td>June 18</td>
<td>Final Exam</td>
<td>Your <a href="#">take-home (final) exam</a> will be released on June 18; it's due on June 19, 2020.</td>
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</table>

Video or Audio Recording: Some of your classmates may be uncomfortable having their faces and/or voices recorded (and there may be related privacy concerns here etc.). For this reason, please be sure you notify me and your classmates — and obtain permission — if you plan to record a session at the beginning of the session.

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**Prerequisites & Plagiarism:**

*Students are responsible for ensuring that they have successfully completed all course prerequisites. If you do not have the prerequisites for this course, and you do not have written special permission from your Dean to enroll in this course, you will be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.*

Plagiarism is an academic offense and will be treated as such. Students who are in doubt as to the nature of this offence should consult their instructor, Department Chair, or Dean’s Office, as well as the Huron University College Statement on Plagiarism, available at the Reference Desk in the Huron University College Library and at [www.huronuc.on.ca](http://www.huronuc.on.ca). In addition, students may seek guidance from a variety of current style manuals available at the Reference Desk in the Huron University College Library. Information about these resources can be found at [www.huronuc.on.ca/library&computing~styleguides](http://www.huronuc.on.ca/library&computing~styleguides).
Appendix to Course Outlines: Academic Policies & Regulations 2020

Prerequisite and Antirequisite Information
Students are responsible for ensuring that they have successfully completed all course prerequisites and that they have not completed any course antirequisites. Unless you have either the requisites for this course or written special permission from your Dean to enrol in it without them, you may be removed from this course and it will be deleted from your record. If you enrol in this course despite having already taken an antirequisite you may be removed from this course and it will be deleted from your record. Removals for these reasons may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites or for having already taken the antirequisites.

Conduct of Students in Classes, Lectures, and Seminars
Membership in the community of Huron University College and Western University implies acceptance by every student of the principle of respect for the rights, responsibilities, dignity and well-being of others and a readiness to support an environment conducive to the intellectual and personal growth of all who study, work and live within it. Upon registration, students assume the responsibilities that such registration entails. The academic and social privileges granted to each student are conditional upon the fulfillment of these responsibilities.

In the classroom, students are expected to behave in a manner that supports the learning environment of others. Students can avoid any unnecessary disruption of the class by arriving in sufficient time to be seated and ready for the start of the class, by remaining silent while the professor is speaking or another student has the floor, and by taking care of personal needs prior to the start of class. If a student is late, or knows that he/she will have to leave class early, be courteous: sit in an aisle seat and enter and leave quietly.

Please see the Code of Student Conduct at: www.huronuc.on.ca/sites/default/files/pdfs/Code%20of%20Student%20Conduct.pdf

Technology
It is not appropriate to use technology (such as, but not limited to, laptops, cell phones) in the classroom for non-classroom activities. Such activity is disruptive and is distracting to other students and to the instructor, and can inhibit learning. Students are expected to respect the classroom environment and to refrain from inappropriate use of technology and other electronic devices in class.

Class Cancellations
In the event of a cancellation of class, every effort will be made to post all relevant information on the OWL class site, https://owl.uwo.ca/portal, and on the Huron website at https://huronatwestern.ca/about/accessibility.

Attendance Regulations for Examinations
A student is entitled to be examined in courses in which registration is maintained, subject to the following limitations:

1) A student may be debarred from writing the final examination for failure to maintain satisfactory academic standing throughout the year.

2) Any student who, in the opinion of the instructor, is absent too frequently from class or laboratory periods in any course will be reported to the Dean of the Faculty offering the course (after due warning has been given). On the recommendation of the Department concerned, and with the permission of the Dean of that Faculty, the student will be debarred from taking the regular examination in the course. The Dean of the Faculty offering the course will communicate that decision to the Dean of the Faculty of registration.

Please see the policy on Attendance Regulations for Examinations here: https://www.uwo.ca/univsec/pdf/academic_policies/exam/attendance.pdf.

Academic Student Support Services
For advice on course selections, degree requirements, and for assistance with requests for medical accommodation, students should email an Academic Advisor in Huron’s Student Support Services at huromsss@uwo.ca. An outline of the range of services offered is found on the Huron website at: https://huronatwestern.ca/academic-advising.

Department Chairs, Program Directors and Coordinators are also able to answer questions about individual programs. Contact information can be found on the Huron website at: https://huronatwestern.ca/contact/contact-directory.

Adding / Dropping Courses
If you think that you are too far behind to catch up or that your workload is not manageable, you should consult your Academic Advisor. If you are considering reducing your workload by dropping one or more courses, this must be done by the appropriate deadlines. Please refer to the Huron website, [https://huronatwestern.ca/academic-advising](https://huronatwestern.ca/academic-advising) or review the list of official Sessional Dates on the Academic Calendar, available here: [http://www.westerncalendar.uwo.ca/SessionalDates.cfm](http://www.westerncalendar.uwo.ca/SessionalDates.cfm).

You should consult with the course instructor and the Academic Advisor who can help you consider alternatives to dropping one or more courses. Note that dropping a course may affect OSAP and/or Scholarship/Bursary eligibility.

**Copyright Regarding Course Material**

Lectures and course materials, including PowerPoint presentations, tests, outlines, and similar materials are protected by copyright. Faculty members are the exclusive owner of copyright in those materials they create. Students may take notes and make copies for their own use. Students may not allow others to reproduce or distribute lecture notes and course materials publicly (whether or not a fee is charged) without the express written consent of a faculty member. Similarly, students own copyright in their own original papers and exam essays. If a faculty member is interested in posting a student’s answers or papers on the course website he/she should ask for the student’s written permission.

**Statement on Academic Integrity**

The International Centre for Academic Integrity defines academic integrity as "a commitment, even in the face of adversity, to five fundamental values: honesty, trust, fairness, respect, and responsibility. From these values flow principles of behaviour that enable academic communities to translate ideals to action." (CAI Fundamental Values Project, 1999).

A lack of academic integrity is indicated by such behaviours as the following:

- Cheating on tests;
- Fraudulent submissions online;
- Plagiarism in papers submitted (including failure to cite and piecing together unattributed sources);
- Unauthorized resubmission of course work to a different course;
- Helping someone else cheat;
- Unauthorized collaboration;
- Fabrication of results or sources;
- Purchasing work and representing it as one’s own.

**Academic Integrity: Importance and Impact**

Being at university means engaging with a variety of communities in the pursuit and sharing of knowledge and understanding in ways that are clear, respectful, efficient, and productive. University communities have established norms of academic integrity to ensure responsible, honest, and ethical behavior in the academic work of the university, which is best done when sources of ideas are properly and fully acknowledged and when responsibility for ideas is fully and accurately represented.

In the academic sphere, unacknowledged use of another’s work or ideas is not only an offence against the community of scholars, it is also an obstacle to academic productivity. It may also be understood as fraud and may constitute an infringement of legal copyright.

A university is a place for fulfilling one's potential and challenging oneself, and this means rising to challenges rather than finding ways around them. The achievements in an individual’s university studies can only be fairly evaluated quantitatively through true and honest representation of the actual learning done by the student. Equity in assessment for all students is ensured through fair representation of the efforts by each.

Acting with integrity at university constitutes a good set of practices for maintaining integrity in later life. Offences against academic integrity are therefore taken very seriously as part of the university’s work in preparing students to serve, lead, and innovate in the world at large.

A university degree is a significant investment of an individual’s, and the public’s, time, energies, and resources in the future, and habits of academic integrity protect that investment by preserving the university’s reputation and ensuring public confidence in higher education.

Students found guilty of plagiarism will suffer consequences ranging from a grade reduction, to failure in the course, to expulsion from the university. In addition, a formal letter documenting the offence will be filed in the Dean’s Office, and this record of the offence will be retained in the Dean’s Office for the duration of the student’s academic career at Huron University College.

**Statement on Academic Offences**
Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, as per the Academic Calendar: http://www.westerncalendar.uwo.ca/PolicyPages.cfm?PolicyCategoryID=1&Command=showCategory&SelectedCalendar=Live&ArchiveID=#SubHeading_189.

**Turnitin.com**

All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University, for a detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and Turnitin.com.

**Computer-Marked Tests/exams**

Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

**Clickers**

Personal Response Systems ("clickers") may be used in some classes. If clickers are to be used in a class, it is the responsibility of the student to ensure that the device is activated and functional. Students must see their instructor if they have any concerns about whether the clicker is malfunctioning. Students must use only their own clicker. If clicker records are used to compute a portion of the course grade:

- the use of somebody else’s clicker in class constitutes a scholastic offence
- the possession of a clicker belonging to another student will be interpreted as an attempt to commit a scholastic offence.

**Policy on “Special” Accommodation**

Students who require special accommodation for tests and/or other course components must make the appropriate arrangements with the Student Development Centre (SDC). Further details concerning policies and procedures may be found at: http://www.sdc.uwo.ca/ssd/index.html.

**Academic Consideration for Missed Work**

Students who are seeking academic consideration for missed work during the semester may submit a self-reported absence form online provided that the absence is 48 hours or less and the other conditions specified in the Senate policy at https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic_Consideration_for_absences.pdf are met.

Students whose absences are expected to last longer than 48 hours, or where the other conditions detailed in the policy are not met (e.g., work is worth more than 30% of the final grade, the student has already used 2 self-reported absences, the absence is during the final exam period), may receive academic consideration by submitting a Student Medical Certificate (for illness) or other appropriate documentation (for compassionate grounds). The Student Medical Certificate is available online at https://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf.

All students pursuing academic consideration, regardless of type, must contact their instructors no less than 24 hours following the end of the period of absence to clarify how they will be expected to fulfill the academic responsibilities missed during their absence. **Students are reminded that they should consider carefully the implications of postponing tests or midterm exams or delaying submission of work, and are encouraged to make appropriate decisions based on their specific circumstances.**

Students who have conditions for which academic accommodation is appropriate, such as disabilities or ongoing or chronic health conditions, should work with Accessible Education Services to determine appropriate forms of accommodation.

**Information for Student Illness Reporting Tool Site**

Beginning March 18, 2020 at 9:00 a.m. all students are asked to use a new, online Student Illness Reporting Tool to track and monitor illnesses, whether the illness impacts the submission of course work or not. The illness must be entered each day that you are ill. When the notification is saved, an email is automatically sent to you for your records. This tool takes the place of the need to submit a medical note and the Self-Reported Absence System used by undergraduate students.

If you have self-reported and require accommodation for a deadline or an exam, please email your instructor directly with the details.

The health, safety and wellness of the university community is important to Western. During the current COVID-19 situation, it is essential for Western to track the impact of illnesses for the University. The Middlesex-London Health Unit must receive this data to be able to quickly understand the magnitude of illness affecting the university community.

**Requests for Academic Consideration Using the Self-Reported Absence Form**
Students who experience an unexpected illness or injury or an extenuating circumstance (48 hours or less) that is sufficiently severe to temporarily render them unable to meet academic requirements (e.g., attending lectures or labs, writing tests or midterm exams, completing and submitting assignments, participating in presentations) should self-declare using the online Self-Reported Absence portal. This option should be used in situations where the student expects to resume academic responsibilities within 48 hours or less.

Please review the full policy at, [https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf).

**Policy on “Academic” Accommodation - Medical / Non-Medical Grounds**

*if absence is not self-reported*

(a) **Medical Grounds** for assignments worth 10% or more of final grade: Go directly to Huron Support Services/ Academic Advising, or email huronssss@uwo.ca.

University Senate policy, which can be found at, [https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_medical.pdf), requires that all student requests for accommodation on medical grounds for assignments worth 10% or more of the final grade be made directly to the academic advising office of the home faculty (for Huron students, the “home faculty” is Huron), with supporting documentation in the form (minimally) of the Senate-approved Student Medical Certificate found at: [https://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf).

The documentation is submitted in confidence and will not be shown to instructors. The advisors will contact the instructor when the medical documentation is received, and will outline the severity and duration of the medical challenge as expressed on the Student Medical Certificate and in any other supporting documentation. The student will be informed that the instructor has been notified of the presence of medical documentation, and will be instructed to work as quickly as possible with the instructor on an agreement for accommodation.

The instructor will not normally deny accommodation where appropriate medical documentation is in place and where the duration it describes aligns with the due date(s) of assignment(s). Before denying a request for accommodation on medical grounds, the instructor will consult with the Dean. The instructor’s decision is appealable to the Dean.

(b) **Accommodation on Medical Grounds** for assignments worth less than 10% of final grade: Consult Instructor Directly

When seeking accommodation on medical grounds for assignments worth less than 10% of the final course grade, the student should contact the instructor directly. The student need only share broad outlines of the medical situation. The instructor may require the student to submit documentation to the academic advisors, in which case she or he will advise the student and inform the academic advisors to expect documentation. The instructor may not collect medical documentation. The advisors will contact the instructor when the medical documentation is received, and will outline the severity and duration of the medical challenge as expressed on the Student Medical Certificate and in any other supporting documentation. The student will be informed that the instructor has been notified of the presence of medical documentation, and will be instructed to work as quickly as possible with the instructor on an agreement for accommodation.

The instructor will not normally deny accommodation where appropriate medical documentation is in place and where the duration it describes aligns with the due date(s) of assignment(s). Before denying a request for accommodation on medical grounds, the instructor will consult with the Dean. The instructor’s decision is appealable to the Dean.

(c) **Non-Medical Grounds**: Consult your Instructor directly.

Where the grounds for seeking accommodation are not medical, the student should contact the instructor directly. Late penalties may apply at the discretion of the instructor. Apart from the exception noted below, academic advisors will not be involved in the process of accommodation for non-medical reasons.

Where a student seeks accommodation on non-medical grounds where confidentiality is a concern, the student should approach an academic advisor with any documentation available. The advisors will contact the instructor after the student’s request is received, and will outline the severity and duration of the challenge without breaching confidence. The student will be informed that the instructor has been notified that significant circumstances are affecting or have affected the student’s ability to complete work, and the student will be instructed to work as quickly as possible with the instructor on an agreement for accommodation. Before denying a request for accommodation where documentation has been submitted to an academic advisor, the instructor will consult with the Dean. The instructor’s decision is appealable to the Dean.

**Mental Health & Wellness Support at Huron and Western**

Students who are stressed, emotionally distressed or in mental health crisis, please refer to: [https://huronatwestern.ca/student-life-campus/student-services/wellness-safety](https://huronatwestern.ca/student-life-campus/student-services/wellness-safety) for a complete list of options about how to obtain help, or email Huronwellness@huron.uwo.ca to
access your wellness staff directly. Additional supports for Health and Wellness may be found and accessed at Western through, www.uwo.ca/uwocom/mentalhealth/.

The Student Emergency Response Team (SERT) provides medical response to 9-1-1 calls on Main, Brescia and Huron campuses which operates 24 hours a day, 7 days a week during the academic year. SERT is dispatched through the campus community Police Service (CCPS) to any medical emergency on campus at (519) 661-3300. For more information about SERT please visit: sert.uwo.ca/about-sert/about-sert/.

**Important Dates & Directory at Huron and Western**

For a current list of important dates and campus directories, please visit:

- **Huron – Important Dates**: [https://huronuc.ca/important-dates-and-deadlines](https://huronuc.ca/important-dates-and-deadlines)
- **Western – Academic Calendar & Sessional Dates**: [http://www.westerncalendar.uwo.ca/SessionalDates.cfm](http://www.westerncalendar.uwo.ca/SessionalDates.cfm)
- **Huron Directory – Faculty, Staff and Administration**: [https://huronuc.ca/index.php/contact/contact-directory](https://huronuc.ca/index.php/contact/contact-directory)
- **Western Directory – Faculty, Staff and Administration**: [https://www.uwo.ca/directory.html](https://www.uwo.ca/directory.html)