



Reasoning and Critical Thinking

PHIL 1230A, Section 550, Fall of of 2020 | Online

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Every attempt will be made to respond to your e-mail within 24 hours (M-F, 9am-5pm)
Virtual Meetings Window: Thursdays, 6:30 pm - 9:30 pm (See grey box below)
Office hour: Immediately following weekly Zoom sessions

Description

We humans are, in the familiar ancient slogan, “rational animals”. 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

Methods

Teaching methods will involve pre-prepared slides, with brief recordings, and live virtual class discussions (e.g. tutorials, workshops and various exercises).

Text

There is no textbook for this course. All readings will be made available via OWL.

Technical Requirements



Stable internet connection



Laptop or desktop computer



Working microphone




Working webcam



This fully online course will contain a mixture of synchronous and asynchronous learning methods. All synchronous (i.e. live) sessions will take place within the Thursday time window above. Zoom meetings will never last a full 3 hours. As an alternative, students will be given material to prepare for those sessions, asynchronously, at their own discretion. A schedule will be made available on OWL. Note: depending on the class size, more than one meeting may, on occasion, be scheduled within our meeting window (e.g. 6:30 pm, for last names A-L only, 8:00 pm for last names M-Z only). Please monitor the course schedule for updates/details.

Aims

By the end of term, every committed student will know how to do four things:

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1. categorize, diagram and assess arguments from virtually any discipline,
 2. spot and, to some extent, mitigate common forms of human irrationality (e.g. biases, fallacies and inconsistencies), and the various harms they can cause,
 3. look for good sources of information and distinguish these from bad sources
 4. employ various techniques and principles for rationally updating their beliefs (SKILLS) (KNOWLEDGE, 1-4),

Students will also get opportunities to

5. construct intellectual rules or guidelines that improve their thinking and decision-making (PERSONAL DEVELOPMENT).

Evaluative Requirements

Assignments	Values	Due Dates	Corresponding Aims
• 1. Active and Informed Participation	20 %	Weekly	1-5 (above)
• 2. Rationality Podcast (in groups)	20 %	Oct 9 (A-L) Nov 22 (M-Z)	2,4 & 5
• 3. Rules & Virtues Assignment	20%	Oct 9 (M-Z) Nov 22 (A-L)	2, 4 & 5
• 4. Final Exam	40 %	Final Exam Period. Date: TBA.	1,2 & 3

Participation: Good philosophy requires conversation. Consequently, in addition to prepared materials/slides/recordings that you will review on your own time, this course contains weekly live sessions (e.g. tutorials, workshops and surprise group exercises, written and/or verbal), which will take place over Zoom. Camera shy? Please take full advantage of other participation modes that your instructor makes available (e.g. forum Qs and group work/exercises in Zoom's breakout rooms etc.)

- *Note: if you are working in a different time zone, and are unable to attend our live online sessions, please note this in OWL's DropBox, during the first week of class, by simply writing "Opt-Out Request for Online Participation" in the subject title. I would be pleased to fully accommodate you for missing assignments 1 and/or 2, upon request.*

Podcast. For this assignment, you will work, virtually, in small groups of approx. 4, including a moderator, that the instructor will assign. After receiving instructions and a number, each group will record a video (or audio) podcast, over Zoom, and submit it for a grade. The aim of this assignment is to help you see how dialogue with others, when enriched with course concepts, can enhance human rationality — specifically, rational belief change. Advanced planning, prior to recording, is strongly recommended. To encourage this, I will provide group numbers and instructions ahead of time. **Note:** if you are uncomfortable with facial presentation, you may mute your webcam. Also see the red note above.

Rules & Virtues assignment. This exercise is designed to encourage you to think about how to think better. Rather than following rules that your instructor provides, you'll be constructing your own concrete rules for mitigating bias and/or avoiding common fallacies. Detailed instructions, with a sample assignment, will be provided via OWL prior to the deadline.

Exam: To take place during the December examination period (date: TBA). As this take-home exam will be "open book", its purpose is to test the student's understanding of major themes, arguments and positions etc. As answers to such questions cannot be unreflectively pasted from the slides, advanced preparation is strongly recommended.

All written assignments, including your exam, rules and any surprise or planned classroom exercises, where applicable, must be submitted through the assignments tab (on OWL).

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:

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

COURSE MAP

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

Unit 1. Groundwork

Week of September 10

- 1.1. "The Sleep of Reason Produces Monsters"
- 1.2. Writing Your Book of Beliefs

Unit 2. Obstacles to Reasoning Well

Week of September 17

- 2.1. Inconsistencies

Weeks of September 24 & October 1

- 2.2. Biases

Week of October 8

- 2.3. Vices

- **Rationality Podcast due on Oct 9. Last name A-L (only)**

- **Rules & Virtues Assignment due on Oct 9. Last name: M-Z (only)**

Week of October 15

- 2.4. Fallacies

Unit 3. Reasoning & Argumentation

Week of October 22

- 3.1. The Nature, Purpose & Appropriate Domains of Argumentation

Week of October 29

- 3.2. Argument Mapping

Week of November 5

- Reading Week. No Session.

Week of November 12

- 3.3. Constructing & Evaluating Arguments

Unit 4. Social Dimensions of Rationality & Irrationality

Week of November 19

- 4.1. Testimony & Trust Part I (Novices & Experts)

- **Rationality Podcast due on Nov 22. Last name M-Z (only)**

- **Rules & Virtues Assignment due of Nov 22. Last name: A-L (only)**

Week of November 26

- 4.2. Testimony & Trust Part II (Echo Chambers, Media & Advertising)

Unit 5. Rational Decision-Making

Week of December 3

- 5.1. Assessing Risk & Reasoning Under Uncertainty

- Exam review Q&A



Appendix to Course Outlines: Academic Policies & Regulations 2020 - 2021

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.

While in the physical classroom or online 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 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: 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 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.

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> or review the list of official Sessional Dates on the Academic Calendar, available here: <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.

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 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 huronsss@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>.

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 the 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 The University of Western Ontario and Turnitin.com (<https://www.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.

Academic Accommodation for Students With Disabilities

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://academicsupport.uwo.ca/>.

Please review the full policy at,

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic%20Accommodation_disabilities.pdf.

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.

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 note the following conditions that are in place for self-reporting of medical or extenuating circumstances:

- Students will be allowed a **maximum of two self-reported absences** between September and April and one self-reported absence between May and August;
- Any absences in excess of the number designated in clause a above, regardless of duration, will require students to present a **Student Medical Certificate (SMC)**, signed by a licensed medical or mental health practitioner, detailing the duration and severity of illness, or appropriate documentation supporting extenuating circumstances to the Academic Counselling unit in their Faculty of registration no later than two business days after the date specified for resuming responsibilities.
- Self-reported absences will not be allowed for scheduled final examinations; for midterm examinations scheduled during the December examination period; or for final lab examinations scheduled during the final week of term.
- Self-reporting may not be used for assessments (e.g. midterm exams, tests, reports, presentations, or essays) worth more than 30% of any given course.
- Students must be in touch with their instructors **no later than 24 hours after the end of the period covered by the Self-Reported Absence form**, to clarify how they will be expected to fulfil the academic expectations they may have missed during the absence.

Please review the full policy at,

https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf .

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

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

University Senate policy, which can be found at,

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 .

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 Huron Support Services/ Academic Advising

Where the grounds for seeking accommodation are not medical (e.g. varsity sports, religious, compassionate, bereavement) the student should contact an academic advisor directly. All accommodation requests must include a completed [Accommodation Request Form](#). Late penalties may apply at the discretion of the instructor.

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

University students may encounter setbacks from time to time that can impact academic performance. Huron offers a variety of services that are here to support your success and wellbeing. Please visit <https://huronatwestern.ca/student-life-campus/student-services/wellness-safety> for more information or contact staff directly:

Wellness Services: huronwellness@huron.uwo.ca
Community Safety Office: safety@huron.uwo.ca

Chaplaincy: gthorne@huron.uwo.ca

Additional supports for Health and Wellness may be found and accessed at Western through, www.uwo.ca/uwo.com/mentalhealth/.

Important Dates & Directory

For a current and up-to-date list of important dates and campus directories, please visit:

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