### School of the Environment, University of Toronto

# Syllabus • ENV 222H1S: Pathways to Sustainability – An Interdisciplinary Approach

## WINTER 2025S • IN-PERSON LECTURE / TUTORIAL DELIVERY



## **INSTRUCTOR**

Dr. Mark Hathaway

Email: mark.hathaway[at]utoronto.ca

To speed processing, please put "ENV222" somewhere in the subject line.

## **LECTURES**

1-3 PM on Tuesdays (Northrop Frye Hall) See Quercus for details.

## **OFFICE HOURS**

Mondays, 3-4 PM (online via Zoom) See instructions on Quercus.

Please make an appointment on Quercus by noon on Monday.

For other alternatives, contact the instructor via e-mail.

## **TEACHING ASSISTANTS**

**Lead Administrative TA**: Lois Boody

lois.boody[at]mail.utoronto.ca

Annabelle Bartos:

annabelle.bartos[at]mail.utoronto.ca

Graham McDonald:

graham.mcdonald[at]mail.utoronto.ca

Honour Stahl:

honour.stahl[at]mail.utoronto.ca

Madi Oliver:

madi.oliver[at]mail.utoronto.ca

## **TUTORIAL SECTIONS (WEEKS 2-11)**

TUT0101: Thurs., 10-11 AM

TUT0201: Thurs., 11 AM – Noon

TUT0301 & 0302: Thurs., 2-3 PM

TUT0401 & 0402: Thurs., 3-4 PM

TUT0501: Fri., 10-11 AM

TUT0601 & 602: Fri., 11 AM - Noon

TUT0701: Fri., 1-2 PM

TUT0801 & 0901: Fri., 2-3 PM

See Quercus for location details.

# **TABLE OF CONTENTS**

Course Description	3
Learning Outcomes	4
Teaching and Learning Philosophy	4
Expectations	4
How to Prepare for Class	5
Use of Perusall for online discussion of required course readings	
Lectures	
Classroom Response System: Poll Everywhere	
Tutorials	
Use of Quercus (Portal/Learning Management System)	
Online Quizzes	
Assignments	
Course Texts and Required readings	
Course Outline and Weekly Readings	
Class 1 (Jan. 7): Course Introduction	
Class 2 (Jan. 14): The Ecological Crisis – Scientific and Technological Dimensions	8
Class 3 (Jan. 21): The Ecological Crisis – Political, Economic, & Social Dimensions	9
Class 4 (Jan. 28): The Ecological Crisis – Ethical and Psychological Dimensions	9
Class 5 (Feb. 4.): Historical Perspectives: Agriculture, Food Production, & Land Use	10
Class 6 (Feb. 11): Historical Perspectives: Energy, Industrialisation, & Consumerism	11
Reading Week: Feb. 17-21	11
Class 7 (Feb. 25): Clean Production, Ecomodernisation, Geoengineering, & Ecotech	11
Class 8 (March 4): Markets, Steady-State Economics, Bioregionalism, & Degrowth	12
Class 9 (March 11): Governance, Policy Approaches, Sustainability, and Regeneration	12
Class 10 (March 18): Individual and Collective Action	13
Class 11 (March 25): Shifting Values & Worldviews, Creating Models of Regeneration	14
Class12 (April 1): Course Conclusion and Final Evaluation	
Course Policies	15
Referencing style: APA	15
Turnitin	15
Late and Length penalties	15
Assignment Extensions	15
Remarking Policy	16
Restrictions on the Use of Generative AI	16
Technology Requirements	16
Electronic Devices Policy	16
Accessibility Needs and Services	
Academic Integrity and Plagiarism	
University of Toronto Writing Centres	
Other Available Services	

## **COURSE DESCRIPTION**

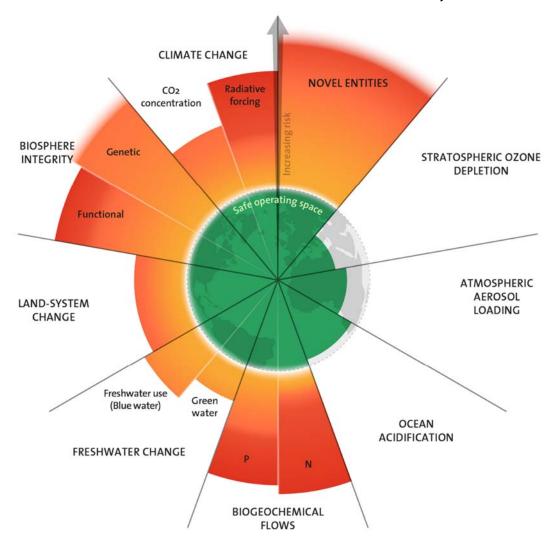
Analysing perils such as rapid climate change, biodiversity loss, stratospheric ozone depletion, ocean acidification, land system changes, and key nutrient cycles, Rockström et al. (2009) observe that we have already exceeded several key boundaries that delineate the safe operating space for humanity on the planet – particularly biodiversity loss and climate change – and that we are rapidly approaching the limits in several other areas such as ocean acidification.

After thoroughly reviewing the current evidence, Ehrlich & Ehrlich (2013) conclude that our current global civilisation is threatened by collapse unless we undertake concerted action to address the most serious problems threatening the well-being of the entire Earth community. Meanwhile, social and economic inequality continues to grow.

Overall, our response to the key challenges threatening the well-being—and even survival—of human societies and living ecosystems seems far weaker than the situation requires (Crompton, 2010), despite the fact that promising policies, technologies, and social innovations to address the ecological crisis exist.

ENV222 explores the concept and practice of sustainability by integrating scientific, technological, economic, political, psychological, historical, and ethical perspectives.

The course begins by analysing the challenges posed by the ecological crisis, including its historical roots. It then goes on to explore and evaluate a variety of approaches, strategies, and actions—at a personal, local, national, and global scale—that could enable us to move towards authentic sustainability.



Designed by Azote for Stockholm Resilience Centre, based on analysis in Persson et al 2023 and Steffen et al 2015.

#### **LEARNING OUTCOMES**

By the end of this course, students will:

- 1. Describe and understand some of the key threats and challenges posed by the ecological crisis and analyse how these are interrelated.
- 2. Explain why many of the key challenges being faced could be described as "wicked problems" and why it is necessary to adopt an inter (or trans) disciplinary approach to understand and address them.
- 3. Describe and analyse how technological, political, economic, psychological, perceptual, and ethical factors have contributed to the genesis of the ecological crisis, including historical perspectives.
- 4. Describe and analyse the nature of sustainability, describe some key characteristics of sustainability (including its technological, political, economic, and ethical dimensions), and envision what kinds of transformations might be necessary to achieve sustainability in practice.
- 5. Describe, analyse, and assess approaches that have been adopted to date to address the ecological crisis and analyse and assess some possible strategies to achieve sustainable human societies and to regenerate ecosystems.

#### **TEACHING AND LEARNING PHILOSOPHY**

In this course, it is assumed that all of us (teachers and students) will learn from each other and that students will engage actively with the course readings, lectures, discussions, and assignments. While lively discussion and probing questions are always encouraged, it is also assumed that each person will treat others with respect. Students are expected to do all required (core) readings, attend lectures and tutorials, engage in appropriate practices and methods for assignments, and think critically. Critical thinking may be demonstrated by:

- articulating a clear understanding of key course concepts;
- applying these concepts appropriately to specific questions and new contexts;
- putting forth logical arguments backed by appropriate course materials (readings and lectures), examples, and evidence;
- making connections between different concepts and perceiving broader patterns; and
- seeking out the concrete implications for values, policies, and actions.

## **EXPECTATIONS**

As your instructor, I expect that you will:

- Take responsibility for your own learning. This is includes participating actively in tutorials, online discussions, and Perusall discussions and seeking out help (via course office hours, use of a writing centre, etc.) when needed.
- Come to every class prepared (having completed the readings) and ready to engage with the material.
- Complete course lectures within the allocated time period (normally, about three days).
- Engage in surveys during course lectures and tutorials.
- Come to class and tutorials with a considerate, respectful, and non-judgmental attitude towards each other and the instructor and help to create a positive space for creative learning and exploration: While critiques of ideas are welcome, treat others with kindness.

As students, you can expect that I will:

- Establish and maintain a positive space for exploration and learning.
- Come prepared to every class.
- Help you learn and achieve the course objectives.

#### **HOW TO PREPARE FOR CLASS**

In order to be able to get the most out of class and participate fully, you should try to read the materials assigned **before each class** on Perusall. The required readings are listed in the syllabus and are available on Perusall for online discussion and Quercus unless otherwise specified.

## **USE OF PERUSALL FOR ONLINE DISCUSSION OF REQUIRED COURSE READINGS**

To encourage critical engagement with course readings, we will be using the Perusall platform to facilitate interactive reading. Be sure to allocate sufficient time out of class each week for this activity.

Go to <u>www.perusall.com</u>, click Login, and then create an account using your University of Toronto email address. Select I am a student and enter the course code **HATHAWAY-A87R8** upon registration. You may access the course directly at <a href="https://app.perusall.com/join/hathaway-a87r8">https://app.perusall.com/join/hathaway-a87r8</a>

You will be asked to enter your student ID – please enter your UTOR ID (normally 8 characters that include part of your last name), not your student number. See "How Perusall Works" posted on Quercus. Also see this set of sample annotations with associated quality scores and an explanation for each score.

You are expected to provide comments or questions on all of the assigned readings. For each reading, typically **you should provide 3 (may vary from 2-4) short comments per reading**. Focus on providing comments/questions about the following elements (although you can certainly go beyond this):

- 1. The key conclusions and arguments of the reading (feel free to skip this if your classmates have already covered this!).
- 2. The element of the reading that you found most interesting, persuasive, well-argued, or thought-provoking. Please explain *why* you found it interesting.
- 3. The elements of the reading that you found most problematic, least persuasive, or most in need of further elaboration, and explain why.
- 4. Connections between the content of the readings and your own experiences, knowledge, or assumptions.
- 5. Connections between the current reading and past readings in the course or course lectures/discussion. (Do they concur or differ? How so?).

**To obtain the highest score possible on Perusall**, make sure to read the reading online in Perusall and to comment on different parts of the text, spending at least 60 minutes on each reading. You may also upvote comments from other students and reply to questions they may raise. Late post grades will be reduced by about 14% for each day late (falling to zero after one week).

Note that misuse of Perusall – for example, posting comments as your own that are generated using artificial intelligence or copied from external sources – will be treated as every other type of academic misconduct and will, at a minimum, result in an overall Perusall score of zero for the semester.

#### **LECTURES**

Lectures will take place online in person from 1-3 PM in person. See location details on Quercus. Lectures will not be recorded. To earn credit for the lecture you must participate in person and respond to surveys using the classroom response system.

#### **CLASSROOM RESPONSE SYSTEM: POLL EVERYWHERE**

Attendance and active participation in all classes are an essential part of this course. To facilitate your participation in a relatively large, lecture-based class, we will be using the (free) Poll Everywhere classroom response system during class. You will be able to submit answers to in-class questions using your laptop or your iOS or Android smartphones and tablets. *Classroom participation will be evaluated based on your participation in in-class surveys done via the classroom response system.*. If this is impossible for you due to an accessibility or related issue, please contact the course instructor.

To find out more about Poll Everywhere, see the information posted on Quercus. You may either use your phone, tablet, or computer during lecture with Poll Everywhere. Instructions for joining Poll Everywhere will also be posted on Quercus. If you joined the course late, or if you did not receive an invitation, please contact the course instructor.

### **TUTORIALS**

Each student will attend ten, in-person tutorials. Tutorials serve both to reinforce key topics from lectures and readings as well as to prepare for assignments and quizzes. Please check and confirm your tutorial group on Quercus under People, seeking out your section number. Tutorials provide students an opportunity to discuss the course subject matter in a smaller group as well as to prepare for course assignments, quizzes, and exams. Each tutorial will be led by one of the teaching assistants. Attendance is required to ensure adequate preparation for exams and papers and active participation will also be part of your participation grade.

## **USE OF QUERCUS (PORTAL/LEARNING MANAGEMENT SYSTEM)**

It is your responsibility to check Quercus frequently (at least twice a week). You must have a mail.utoronto.ca (or @utoronto.ca) email address indicated on ACORN to properly receive messages from the course instructor through Quercus.

Please note that all written assignments will be submitted through Quercus. It is your responsibility to ensure that your written assignments are uploaded properly. Please make sure the confirmation page appears after submitting your assignments and, if possible, make a copy of the confirmation page ("print" to a pdf document and save).

#### **COURSEWORK AND GRADING**

Assignment instructions, including assessment criteria, will be posted on Quercus and discussed in tutorial.

Assignments	Due Date	Value
<ul> <li>Attendance and Participation</li> <li>Attend synchronous lectures, participate in surveys and discussions, and post to online groups discussions.</li> <li>Other bonus activities will also be available. See course participation for more details</li> </ul>	Weekly	20%
<ul><li>Quizzes</li><li>Three online quizzes focusing on lectures (5% each)</li></ul>	1. January 30-31 (Th-Fri) 2. Mar. 6-7 (Th-Fri) 3. April 3-4 (Th-Fri)	15%
Perusall Readings (due Sundays)	Weekly: Check on Perusall	15%
Assignment #1	Friday, Feb. 21 @ 11:59 PM	25%
Assignment #2	Fri., April 11 @ 11:59 PM	25%
TOTAL		100%

Participation Grade Details	Marks	Maximum
<ul> <li>Synchronous Lecture Complete</li> <li>Participate in lectures in person, completing all in-class polls including possible attendance checks.</li> </ul>		12.0
Tutorial Participation (10 tutorials, weeks 2-11)	0.5/tutorial	5.0
Mid-term Course Evaluation	1.0	1.0
Final Course Evaluation Certification	1.0	1.0
Bonus Participation Activities	1.0 each (up to 4.0)	4.0
Total Possible		20.0

## **ONLINE QUIZZES**

There will be three multiple choice online quizzes accessible via Quercus, one covering the lectures of weeks 1-4 of the course second covering weeks 5-8, and the third weeks 9-12. **Each quiz will open on a Thursday at Noon and close Friday at 11:59 PM**.

You may attempt each quiz three times during the 36 hours it is open, seeking to improve your responses each time. Only the best of the three attempts will count. Each time you attempt the quiz, the questions are drawn from a question bank, so new questions may appear each time.

You are permitted to refer to your notes, posted lecture slides, and readings while taking the quiz, but each attempt is time limited.

#### **ASSIGNMENTS**

There will be two written assignments, each a maximum of 1400 words excluding the reference list. Details of each assignment will be posted on Quercus along with a rubric outlining the criteria for evaluation.

## **COURSE TEXTS AND REQUIRED READINGS**

All course texts will be available online via Perusall (core readings) or Quercus (recommended and optional readings). In some cases, to access electronic journal articles and some book chapters, you will need to log into the University of Toronto library.

**Note:** Students are expected **to read all core readings posted on Perusall**. Recommended and optional readings are included for those who wish to explore a theme in more depth. Non-core readings will not be covered in course quizzes (unless the material is covered in course lectures), but may be helpful in understanding key ideas, writing your assignment papers, and answering any bonus quiz questions.

The list of readings included in the syllabus may be modified somewhat during the course – **please** consult Quercus for an up-to-date list of core, recommended, and optional readings.

#### **COURSE OUTLINE AND WEEKLY READINGS**

Students are expected to attend all lectures online via Zoom. If you are sick or unable to attend a lecture, you may recover participation marks by participating in a bonus participation activity. More details, include lecture slides and videos as well as optional course readings will be posted on Quercus.

#### **CLASS 1 (JAN. 7): COURSE INTRODUCTION**

## **Learning Outcomes**

- Students will gain an overview of the course and have a clear understanding of expectations for participation, assignments, and evaluation.
- Students will be able to define and understand some key concepts such as ecology, environment, and the Anthropocene.
- Students will begin to reflect on and develop an understanding of the nature of the ecological crisis, including problems related to poverty and inequality, resource depletion, and waste accumulation.

## **Bonus Participation Activity**

Post a personal introduction in the discussion forum by January 19.

## Core Readings (read all the following on Perusall)

## **Recommended Readings**

Brown, L. R. (2009). Plan B 4.0: Mobilizing to save civilization, pp. xi-27. New York, NY: W. W. Norton & Company, Inc.

MacDonald, D. (2015). Human capacity, self-interest and moral restraint: Attempting to understand the ecological crisis. Paper delivered at the 2015 annual conference of the Environmental Studies Association of Canada, June 2, 2015, University of Ottawa.

#### CLASS 2 (JAN. 14): THE ECOLOGICAL CRISIS – SCIENTIFIC AND TECHNOLOGICAL DIMENSIONS

## **Learning Outcomes**

- Students will gain an understanding of key ecological challenges as "wicked problems" and begin to reflect on the importance of an inter/transdisciplinary approach to understand and address these.
- Students will gain a clearer understanding of the scientific dimensions of key ecological problems including the concept of planetary boundaries (and the nature of each of these) as well as the interrelationship between key ecological challenges.
- Drawing on systems theory, students will explore the nature of feedback loops and how these influence ecological changes.

## Core Readings (read all the following on Perusall)

Ehrlich, P. R., & Ehrlich, A. H. (2013). Can a collapse of global civilization be avoided? *Proceedings of the Royal Society B: Biological Sciences, 280*(20122845), 1-9.

Hathaway, M. & Boff, L. (2009). The Tao of liberation: Exploring the ecology of transformation. (pp. 1-22). Maryknoll, NY: Orbis Books.

Rockström, J., Steffen, W., Noone, K., Persson, Å., Chapin III, F. S., Lambin, E.,... Schellnhuber, H. J. (2009). Planetary boundaries: Exploring the safe operating space for humanity. *Ecology and society*, 14(2), 32.

#### **Recommended Readings**

Hansen, James (2012). Why I must speak out about climate change. TED talk: https://www.ted.com/talks/james\_hansen\_why\_i\_must\_speak\_out\_about\_climate\_change

#### **Optional Readings**

Brown, V. A., Harris, J. A., & Russell, J. Y. (Eds.). (2010). *Tackling wicked problems through the transdisciplinary imagination*, pp. 3-21, 26-30. London, UK: Routledge.

Hulme, Mike (2009). Chapter 3: The Performance of Science. In *Why we disagree about climate change: Understanding controversy, inaction and opportunity*. Cambridge: Cambridge University Press. pp. 72-108.

### CLASS 3 (JAN. 21): THE ECOLOGICAL CRISIS – POLITICAL, ECONOMIC, & SOCIAL DIMENSIONS

### **Learning Outcomes**

- Students will be able to analyse and understand the connection between economic growth, corporate super-persons, finance, monoculture, and domination and the ecological crisis (including its social dimensions) as well as some of the assumptions underlying the dominant global economic system.
- Students will analyse the relationship between population, affluence/consumption, and technology in generating ecological impacts (I=PAT).
- Students will learn how ecological footprints can be used to understand the relative impact of different nations and social classes.
- Students will understand more clearly the political challenges posed by the ecological crisis and continue to deepen the analysis of population, affluence, technology, and ecological impact.
- Students will analyse in more detail the concept of the Anthropocene as well as some alternative ways to understand our current epoch in light of an analysis of relative consumption and economics.

## **Bonus Participation Discussion**

Watch the webinar recording with Marilyn Waring on why GDP is a flawed economic indicator and post to the discussion by Jan. 19.

## Core Readings (read all the following on Perusall)

Carter, Neil (2007). Chapter 7: The environment as a policy problem. In The politics of the environment: Ideas, activism, policy. Cambridge: Cambridge University Press. pp. 174-181.

Ehrlich, P. R., & Ehrlich, A. H. (2004). Chapter 5: Technology matters. In One with Nineveh: Politics, consumption, and the human future, pp. 138-180. Washington, DC: Island Press.

Hathaway, M. & Boff, L. (2009). The Tao of liberation: Exploring the ecology of transformation, pp. 22-61. Maryknoll, NY: Orbis Books.

### **Recommended Readings**

Meyer, William B. (1996). Chapter 2: Changes in population and society. In *Human impact on the Earth*, pp. 22-50. Cambridge, UK: Cambridge University Press.

Hartley, D. (2016). Anthropocene, Capitalocene, and the problem of culture. In Altvater, E., Crist, E., Haraway, D., Hartley, D., Parenti, C., & McBrien, J. *Anthropocene or capitalocene? Nature, history, and the crisis of capitalism* pp. 154-184. Oakland, CA: PM Press. Retrieved from http://ebookcentral.proquest.com

Battersby, S. (2017). Can humankind escape the tragedy of the commons? Proceeding of the National Academy of Sciences, 114(1), 7-10.

### **Optional Readings**

Marten, G. G. (2010). Chapter 2: Population and feedback systems. *Human ecology: Basic concepts for sustainable development*, pp. 14-25. London, UK: Routledge.

Steffen et al (2018). Trajectories of the Earth system in the Anthropocene. *Proceedings of the National Academy of Sciences*, 115(33), 8252-8259.

## CLASS 4 (JAN. 28): THE ECOLOGICAL CRISIS – ETHICAL AND PSYCHOLOGICAL DIMENSIONS

## **Learning Outcomes**

- Students will gain a clearer understanding of how values and perceptions (or worldviews) affect human-nature interactions as well as some factors that may have contributed to a more anthropocentric worldview.
- Students will be able to describe some ethical frameworks including deep ecology, ecofeminism, social ecology, and spiritual-religious perspectives.
- Students will come to understand some of the key psychological and perceptual challenges may impede actions addressing key ecological problems.

#### **Bonus Participation Discussion**

Post to the discussion by January 26, sharing a significant life experience that helped move you towards a more ecological worldview.

### Core Readings (read all the following on Perusall)

Armstrong, J. (2021). The land is us. In Hathaway, M. et al (eds.) Listening to Indigenous Voices: A Dialogue Guide on Justice and Right Relationships (pp. 28-31). Toronto, ON: Novalis

Attfield, Robin (2003). Chapter 1: Environmental problems and humanity. In Environmental Ethics, pp. 1-30. Cambridge, UK: Polity Press. Markowitz, E. and Shariff, A. 2012. Climate change and moral judgment. Nature Climate Change, p.243-247.

Orr, D. (2006). The trial. Conservation Biology, 20(6), 1570-1573.

## **Recommended Readings**

Hemple, M. (2014). Ecoliteracy: Knowledge is not enough. State of the World 2014: Governing for Sustainability pp. 41-52. Washington, DC: Worldwatch Institute.

Merchant, C. (2008). Introduction. Ecology: Key concepts in critical theory, pp. 15-39. Humanity Books.

Scharper, S. (2013). From sustainable development to sustainable liberation: Toward an Anthropo-harmonic ethic. In S. Appolloni (Ed.), For Earth's sake: Toward a compassionate ecology (pp. 180-199). Toronto, ON: Novalis.

## **Optional Readings**

Capra, F. (1996). Deep ecology - A new paradigm. Chapter 1 of *The web of life: A new scientific understanding of living systems* (pp. 3-13). New York, NY: Anchor Books.

Marten, G. G. (2010). Chapter 9: Perceptions of nature. *Human ecology: Basic concepts for sustainable development*, pp. 121-135. London, UK: Routledge.

#### CLASS 5 (FEB. 4.): HISTORICAL PERSPECTIVES: AGRICULTURE, FOOD PRODUCTION, & LAND USE

## **Learning Outcomes**

- Students will be able to describe and analyse how changes in food production transformed humannature relations and contributed to the current ecological crisis.
- Students will gain a clearer understanding of the impacts of modern industrial agriculture on ecosystems as well as how such agriculture may contribute to social inequality.
- Students will continue to deepen their understanding of the Anthropocene or Capitalocene.

## **Bonus Participation Discussion**

Watch the film *Inhabitants* and contribute to the discussion by Feb. 2.

#### Core Readings (read all the following on Perusall)

Hathaway, M. (2016). Agroecology and permaculture: Addressing key ecological problems by rethinking and redesigning agricultural systems. *Journal of Environmental Studies and Sciences*, 6(2), 239-250. doi: 10.1007/s13412-015-0254-8

Marten, G. G. (2010). Chapter 10: Unsustainable human-ecosystem interactions. *Human ecology: Basic concepts for sustainable development*, pp. 136-156. London, UK: Routledge.

Shiva, V. (2015). Women and biodiversity feed the world, not corporations and GMOs. *Common Dreams:*<a href="https://www.commondreams.org/views/2015/05/20/women-and-biodiversity-feed-world-not-corporations-and-gmos">https://www.commondreams.org/views/2015/05/20/women-and-biodiversity-feed-world-not-corporations-and-gmos</a>

#### **Recommended Readings**

Burney, D. A., & Flannery, T. F. (2005). Fifty millennia of catastrophic extinctions after human contact. *Trends in Ecology & Evolution*, 20(7), 395-401. doi:10.1016/j.tree.2005.04.022

Moran, E. F. (2006). Chapter 2: The way things were... *People and nature: An introduction to human ecological relations*, pp. 26-56. Malden, MA: Blackwell Publishing.

Sutton, M. Q., & Anderson, E. N. (2010). Chapter 9: Intensive agriculture. *Introduction to cultural ecology*, pp. 251-289. Plymouth, UK: AltaMira Press.

## **Optional Readings**

Barje, T. and Erlandson, J. 2013. Looking forward, looking back: Humans, anthropogenic change, and the Anthropocene. *Anthropocene* 4(2013): 116-121.

Malm, A., & Hornborg, A. (2014). The geology of mankind? A critique of the Anthropocene narrative. *The Anthropocene Review, 1*(1), 62–69. https://doi.org/10.1177/2053019613516291

Moore, Jason W. (2017) The Capitalocene, Part I: On the nature and origins of our ecological crisis, *The Journal of Peasant Studies*, 44:3, 594-630, DOI: <a href="https://doi.org/10.1080/03066150.2016.1235036">10.1080/03066150.2016.1235036</a>

## CLASS 6 (FEB. 11): HISTORICAL PERSPECTIVES: ENERGY, INDUSTRIALISATION, & CONSUMERISM

## **Learning Outcomes**

- Students will be able to describe and analyse how changes in the use of energy and the industrial revolution transformed human-nature relations and contributed to the current ecological crisis.
- Students will gain a clearer understanding of the nature and genesis of consumerism as well as how consumerism contributes to ecological destruction.

## Core Readings (read all the following on Perusall)

Assadourian, Erik (2010). The rise and fall of consumer culture. In Eric Assadourian (ed.), *State of the world – Transforming cultures: From consumerism to sustainability*. New York: WW Norton. Retrieved from http://www.worldwatch.org/files/pdf/Chapter%201.pdf Ponting, C. (2007). Chapter 12: The second great transition. *A new green history of the world*, pp. 265-293. London, UK: Vintage.

### **Recommended Readings**

Mokyr. J. (1990). Chapter 6: The later nineteenth century, 1830-1914. *The lever of riches: Technological creativity and economic progress*, pp. 113-148. Oxford, UK: Oxford University Press.

Nye, David E. (2006). Chapter 6. Sustainable abundance, or ecological crisis? In *Technology matters: Questions to live with*, pp. 87-108. Cambridge, MA: MIT Press.

Trentmann, F. 2016. How humans became 'consumers': A history. *The Atlantic*, November 28, 2016. (https://www.theatlantic.com/business/archive/2016/11/how-humans-becameconsumers/508700/).

## **Optional Readings**

Smart, Barry (2010). Consuming: Historical and conceptual issues. In *Consumer Society: Critical Issues and Environmental Consequences*, pp. 1-29. London, UK: Sage.

#### **READING WEEK: FEB. 17-21**

#### CLASS 7 (FEB. 25): CLEAN PRODUCTION, ECOMODERNISATION, GEOENGINEERING, & ECOTECH

## **Learning Outcomes**

- Students will be able to analyse and assess the possibilities and limitations of technological innovations including clean production and ecomodernisation.
- Students will be able to analyse the challenges and possible solutions to the problems posed by plastics.
- Students will more clearly understand the possibilities, potential problems, and ethical questions evident in geoengineering.
- Students will be able to analyse the possibilities and implications of creating more durable and sustainable goods.
- Students will understand the principles of ecologically sustainable technology and biomimicry.

## Core Readings (read all the following on Perusall)

Corner, A., & Pidgeon, N. (2010). Geoengineering the climate: The social and ethical implications. *Environment: Science and Policy for Sustainable Development*, *52*(1), 24-37. doi: 10.1080/00139150903479563

Foster, J. (2012). The planetary rift and the new human exemptionalism: A political-economic critique of ecological modernization theory. *Organization & Environment*, *25*(3), 211-237. doi:10.1177/1086026612459964

Mol, A. and D. Sonnenfeld (2000). Ecological modernisation around the world: An introduction. *Environmental Politics 9*(1): 1-14.

#### Recommended Readings

Hathaway, M. (2015). The practical wisdom of permaculture: An anthropoharmonic phronesis for an ecological epoch. *Environmental Ethics*, 37(4), 445-463.

International Institute for Sustainable Development (2013). Cleaner production: <a href="https://www.iisd.org/business/tools/bt\_cp.aspx">https://www.iisd.org/business/tools/bt\_cp.aspx</a> [Short, one-page overview]

The Biomimicry Toolbox: <a href="https://toolbox.biomimicry.org/">https://toolbox.biomimicry.org/</a> (Read the introduction and the four core concepts)

#### **Optional Readings**

Butler, Sarah (2018). Is fast fashion giving way to the sustainable wardrobe? The Guardian, 29 December 2018.

Gomez, Isabella (2018). Recycling isn't going to stop plastic from destroying the Earth. Teen Vogue, December 20, 2018.

Kopnina, Helen (2018). Circular economy and cradle to cradle in educational practice. Journal of Integrative Environmental Sciences, 15:1, 119-134, DOI: 10.1080/1943815X.2018.1471724

McMahon, J. (2018). Chinese company says it will soon cross \$100 battery threshold, slaying the gasoline car. *Forbes, December 4, 2018*. Milanez, B., & Bührs, T. (2007). Marrying strands of ecological modernisation: A proposed framework. *Environmental Politics, 16*(4), 565-583. doi:10.1080/09644010701419105

Thorpe, Beverley (1999). Citizen's guide to clean production.

https://www.researchgate.net/publication/260399703 Citizen's Guide to Clean Production

#### CLASS 8 (MARCH 4): MARKETS, STEADY-STATE ECONOMICS, BIOREGIONALISM, & DEGROWTH

## **Learning Outcomes**

- Students will gain a basic understanding of ecological economics including its critique of growth, GDP, and hidden externalities.
- Students will be able to analyse and assess the possibilities and limitations of market-based solutions to ecological problems, particularly the use of carbon pricing mechanisms to re-internalise the costs of carbon pollution.
- Students will assess the advantages, limitations, and challenges of more radical economic transformations including bioregionalism and economic degrowth.

## Core Readings (read all the following on Perusall)

Cato, Molly (2012). Visioning the bioregional economy. In The Bioregional Economy, pp. 21-39. London, UK: Routledge.

Daly, Herman E. (2007). *Ecological economics and sustainable development, selected essays by Herman Daly,* pp. 9-31. Cheltenham, UK: Edward Elgar Publishing, Inc.

## **Recommended Readings**

Eisner, M. (2007). Chapter 8: From greed to green. In *Governing the Environment: The transformation of environmental regulation*, pp. 135-151. Boulder, CO: Lynne Rienner Publishers.

Martínez-Alier, Joan (2012). Environmental justice and economic degrowth: An alliance between two movements. *Capitalism Nature Socialism* 23(1): 51-73.

Redcliff, Michael (2010). The transition out of carbon dependence: The crisis of environment and markets. In M. Redcliff and G. Woodgate (eds.), *The international handbook of environmental sociology (2<sup>nd</sup> edition)*, pp. 121-135. Cheltenham, UK: Edward Elgar Publishing, Inc.

#### **Optional Readings**

Ahmed, Nafeez (2018). This is how UN scientists are preparing for the end of capitalism. *The Independent*, 12 September 2018. <a href="https://www.independent.co.uk/news/long-reads/capitalism-un-scientists-preparing-end-fossil-fuels-warning-demise-a8523856.html">https://www.independent.co.uk/news/long-reads/capitalism-un-scientists-preparing-end-fossil-fuels-warning-demise-a8523856.html</a>

Davidson, Eric A. (2000). Chapter 9. May We Live in Interesting Times. You Can't Eat GNP: Economics as if Ecology Mattered. Cambridge: Mass.: Perseus. pp. 185-216.

Falkner, Robert (2009). Chapter 1: Global firms in international environmental politics. In *Business Power and Conflict in International Environmental Politics*. New York: Palgrave Macmillan. pp. 3-15.

Goodman, M.K., and Boyd, E. (2011). A social life for carbon? Commodification, markets and care. Editorial. *The Geographical Journal*, 177 (2), 102-109.

Hachadourian, Araz (2017). The 150-mile wardrobe: A solution for one of the world's most polluting industries. *Yes! Magazine*, December 19, 2017.

World Bank Group. 2017. *State and trends of carbon pricing*. Executive Summary, p. 8-13. https://openknowledge.worldbank.org/bitstream/handle/10986/29687/9781464812927.pdf

#### **Bonus Participation Discussion**

Project Drawdown: <a href="https://www.drawdown.org/solutions">https://www.drawdown.org/solutions</a> (spend some time browsing the different solutions in the different sectors – look towards the bottom of the page for the links) and post to the discussion by March 9.

## CLASS 9 (MARCH 11): GOVERNANCE, POLICY APPROACHES, SUSTAINABILITY, AND REGENERATION

## **Learning Outcomes**

- Students will gain a clearer understanding of the history of international environmental policy making, including the challenges of creating effective, binding agreements.
- Students will be able to explain how questions of ecological justice and global economics affect international environmental negotiations.
- Students will be able to explain and critique the concept of sustainable development, understand essential elements of sustainability, and explain the concept of regeneration and what it might entail in practice.

## Core Readings (read all the following on Perusall)

Speth, J. G. & Hass, P. M. (2006). Chapter 6: Paths to the future: A second attempt at global environmental governance? In *Global Environmental Governance*, pp. 125-150. Washington, DC: Island Press.

Wahl, D. C. (2016). Designing regenerative cultures. pp. 15-18, 39-49, 251-254. Axminster, UK: Triarchy Press.

### **Recommended Readings**

Meadowcroft, James (2012). Greening the state?" In Paul F. Steinberg and Stacy D. VanDeveer, Comparative Environmental Politics: Theory, Practice and Prospects. Cambridge, Mass: MIT Press. pp. 63-87.

Orr, D. W. (1993). Love it or lose it: The coming biophilia revolution. In S. R. Kellert & E. O. Wilson (Eds.), *The biophilia hypothesis* (pp. 415-440). Washington, DC: Island Press.

### **Optional Readings**

Cobb, J. B. (2012). Sustainable urbanization. In In I. Leman-Stefanovic & S. B. Scharper (Eds.), *The natural city: Re-envisioning the built environment* (pp. 191-202). Toronto, ON: University of Toronto Press.

Klein, Naomi (2018). Capitalism killed our climate momentum, not "human nature." *The Intercept*, August 3, 2018. https://theintercept.com/2018/08/03/climate-change-new-york-times-magazine/

Levin, K., Cashore, B., Bernstein, S., & Auld, G. (2012). Overcoming the tragedy of super wicked problems: constraining our future selves to ameliorate global climate change. *Policy sciences*, *45*(2), 123-152. doi: 10.1007/s11077-012-9151-0

Munsch, Mathieu (2017). As the climate clock strikes midnight, it's time to look to the morning. In *Bright Green: Independent media for a radical, democratic, green movement*. <a href="http://bright-green.org/2017/07/22/as-the-climate-clock-is-strikes-midnight-its-time-to-look-to-the-morning/">http://bright-green.org/2017/07/22/as-the-climate-clock-is-strikes-midnight-its-time-to-look-to-the-morning/</a>

TED Talk by Christiana Figueres – Executive secretary of the United Nations Framework Convention on Climate Change (UNFCCC), who led the recent COP 21 climate talks in Paris.

https://www.ted.com/talks/christiana figueres the inside story of the paris climate agreement

Vogler, John (2008). Environmental issues. In John Baylis, Steve Smith, and Patricia Owens (eds.) *The Globalization of World Politics: An Introduction to International Relations*, pp. 350-368. Oxford, UK: Oxford University Press.

### **Bonus Participation Discussion**

Participate in the bonus participation discussion on the Fossil Fuel Non-Proliferation Treaty and the Stop Ecocide campaigns by November 10.

## **CLASS 10 (MARCH 18): INDIVIDUAL AND COLLECTIVE ACTION**

## **Learning Outcomes**

- Students will gain an understanding of both the importance and limitations of individual behaviour changes to promote sustainability as well as some of the challenges of motivating such change.
- Students will be able to analyse the challenges and potential effectiveness of collective action to promote sustainability at a community and social movement level.
- Students will be able to explain some of the goals and strategies employed by several proenvironmental social movements such as Fridays for Future, the Earth Charter, Indiginous Climate Action, and Foodshare.

## Core Readings (read all the following on Perusal)

Hinton, E. & Goodman, M. (2010). Sustainable consumption: Developments, considerations and new directions. In M. Redcliff and G. Woodgate (eds.), *The international handbook of environmental sociology (2<sup>nd</sup> edition)*, pp. 245-261. Cheltenham, UK: Edward Elgar Publishing, Inc.

Lange, E. A. (2023). Waves of environmentalism, development, and backlash. Chapter 3 in *Transformative sustainability education: Reimagining our future.* London, UK: Routledge.

### **Recommended Readings**

Harper, Charles L. (2001). Chapter 9: Environmentalism: Ideology, action and movements. *Environment and Society: Human Perspectives on Environmental Issues*, pp. 345-384. Upper Saddle River, NJ: Prentice Hall.

Tallullah, Tegan (2018). Why we can't rely on individuals to fix climate change. *The Climate Lemon* <a href="https://theclimatelemon.com/individual-collective-fixing-climate-change/">https://theclimatelemon.com/individual-collective-fixing-climate-change/</a>

Westley, F., Patton, M. Q., & Zimmerman, B. (2007). Getting to maybe: How the world is changed, pp. 19-53. Toronto, ON: Vintage Canada.

## **Optional Readings**

Elgin, Duane 2006). Voluntary simplicity and the new global challenge. In N. Haenn and R. Wilk (eds.) *The environment in anthropology: A reader in ecology, culture, and sustainable living,* pp. 458-468. New York, NY: NYU Press.

Hackel, L. & Sparkman, G. (2018). Reducing your carbon footprint still matters. *Slate*, October 26, 2018. https://slate.com/technology/2018/10/carbon-footprint-climate-change-personal-action-collective-action.html

### **Bonus Participation Discussion**

Participate in the bonus discussion by March 16 on *Pluriverse: A Post-Development Dictionary* and analyse three of the alternatives considered.

#### CLASS 11 (MARCH 25): SHIFTING VALUES & WORLDVIEWS, CREATING MODELS OF REGENERATION

### **Learning Outcomes**

- Students will be able to explain some theories of social change and be able to classify different kinds of transformative action applying these frameworks.
- Students will gain a preliminary understanding for both the importance and challenges of shifting values and worldviews.
- Students will become familiar with and analyse a variety of initiatives seeking to create living models of regenerative sustainability.

### **Bonus Participation Discussion**

Consider one of the examples below for your contribution to the discussion by March 23:

Permaculture: http://www.permaculture.org.uk/ or http://permacultureprinciples.com/ (and related videos)

The Earth Charter Initiative: <a href="http://www.earthcharterinaction.org/content/">http://www.earthcharterinaction.org/content/</a>

The Work that Reconnects Network: <a href="http://workthatreconnects.org/">http://workthatreconnects.org/</a>

Transition Towns: <a href="http://www.transitionnetwork.org/">http://www.transitionus.org/</a> or <a href="http://www.transitionus.org/">http://www.transitionus.org/</a>

#### Core Readings (read all the following on Perusall)

Escobar, A. (2018). Chapter 5: Design for transitions. *Designs for the pluriverse: Radical interdependence, autonomy, and the making of worlds,* pp. 137-164. Durham, NC: Duke University Press.

Homer-Dixon, T. (2006). Chapter 9: Cycles within cycles. *The upside of down: Catastrophe, creativity, and the renewal of civilization*, pp. 207-234. Washington, DC: Island Press.

See also: Earlier articles on permaculture and bioregionalism.

#### **Recommended Readings**

Marten, G. G. (2010). Chapter 4: Ecosystems and social systems as complex adaptive systems. *Human ecology: Basic concepts for sustainable development*, pp. 42-59. London, UK: Routledge.

Quilley, S. (2012). Resilience through relocalization: Ecocultures of transition? *Ecocultures Working Paper*: 2012-1. University of Essex, UK. URL: http://www.ecocultures.org/wp-content/uploads/2012/02/Quilley-2012-1.pdf.

#### **Optional Readings**

Meadows, D. H. (1999). Leverage points: Places to intervene in a system. Hartland, VT: The Sustainability Institute.

Poland. B. et al (2018). The emergence of the transition movement in Canada: Success and impact through the eyes of initiative leaders. *Local Environment*. https://doi.org/10.1080/13549839.2018.1555579

## **CLASS12 (APRIL 1): COURSE CONCLUSION AND FINAL EVALUATION**

#### **Learning Outcomes**

• Students will reflect on and integrate their leaning to date regarding the ecological crisis and its causes as well as possible ways to address this crisis.

### **Bonus Participation Discussion**

Watch the film *Inhabit* and contribute to the discussion by March 30.

(No readings)

#### **COURSE POLICIES**

## **REFERENCING STYLE: APA**

All references in written work must be fully cited using the APA format. The following website is a useful style guide. <a href="https://owl.purdue.edu/owl/research">https://owl.purdue.edu/owl/research</a> and citation/apa style/apa formatting and style guide/index.html

**Note:** On course assignments, please include page or lecture slide numbers in inline citations even when these are not direct quotes. This helps TAs when marking your essays. You may also simply lecture citations as described in your course assignment instructions.

#### **TURNITIN**

Normally, students will be required to submit their course assignments to Turnitin for a review of textual similarity and detection of possible plagiarism. In doing so, students will allow their essays to be included as source documents in the Turnitin reference database, where they will be used solely for the purpose of detecting plagiarism. The terms that apply to the University's use of the Turnitin service are described on the Turnitin web site.

If a student does not wish to participate in Turnitin, the student MUST advise their TA at least three weeks before the assignment due date as alternate arrangements for screening the assignment must be arranged. (Normally, this will entail the submission of rough notes and drafts along with their final assignment.)

#### LATE AND LENGTH PENALTIES

Please follow the length guidelines for each assignment carefully. A 2% penalty for up to the first 100 words over the maximum length will be deducted from the assignment (i.e. from 1 to 100 words over the limit) and 5% for each additional 100 words (101 to 200 over, etc.). (

Late papers will be assessed a **5% reduction of the value of the assignment per day late**, unless previously negotiated with the lead TA or with the submission of an ACORN absence self-declaration form. (Please inform the Instructor if you have submitted a declaration of absence form.) Note that late penalties for Perusall readings are different, as noted previously.

Unless previously negotiated, *late papers will only be accepted for one week after the due date*. Papers later than this will not be assessed. *Please do not leave potential issues to the last minute to discuss with the course instructor*.

If assignments are submitted late because of medical reasons, you must submit an online absence declaration on ACORN. (The declaration is available on ACORN under the Profile and Settings menu.).

After submitting the verification of illness form, let the course instructor know how long you anticipate you will not be able to engage in schoolwork due to illness.

#### **ASSIGNMENT EXTENSIONS**

If you need to submit an assignment a few days late because of conflicting deadlines, extenuating circumstances, etc., you may request (48 hours before the assignment is due) a "life happens" extension without further explanation by writing to the Lead Administrative TA via e-mail. Each student is entitled to a total of four days of "life happens" extensions that may be used separately (single days) or in blocks of 2-4 days. Please be careful to use these wisely. (It is probably best to only use 1-2 of these days at a time.) Make sure to follow the extension request procedure outlined on Quercus. You may also, of course, request an extension (48 hours before the assignment is due) due to illness

You may also, of course, request an extension (**48 hours before the assignment is due**) due to illness (with an ACORN absence declaration) or accessibility-related reason.

Generally speaking, extensions will only be granted for Perusall readings or Quizzes due to an illness or accessibility-related issue – "life happens" extensions will not apply. For this reason, it is strongly suggested that you keep up to date on your assigned Perusall readings.

Please note that "life happens" extensions cannot be combined with other kinds of extensions. Also note that the last day that late term work will be accepted, even with an extension, is April 25.

#### REMARKING POLICY

If a student believes that their assignment has not been fairly assessed, they should first read all the comments (both in the text and terminal comments) and consult the assignment rubric. If, after reviewing these, the student would like to request a reassessment, they should write their TA – **within one week of receiving their assignment grade** – with a written justification explaining why the assignment should be reassessed. The TA will then consider the request and remark if they believe this is justified. If the student is still not satisfied, they may appeal the grade to Lead Administrative TA, but must submit a written rationale to do so.

#### RESTRICTIONS ON THE USE OF GENERATIVE AI

Students may not use artificial intelligence tools for taking tests (quizzes), creating Perusall annotations, writing forum contributions, or completing major course assignments; students are also strongly discouraged from using these tools for research purposes due to their unreliability.

## **TECHNOLOGY REQUIREMENTS**

Advice for students regarding online learning is available here: <a href="https://onlinelearning.utoronto.ca/getting-ready-for-online/">https://onlinelearning.utoronto.ca/getting-ready-for-online/</a>

This course requires the use of computers to view lectures, participate in discussions, annotate readings on Perusall, and submit assignments. Please keep in mind that computer problems may arise from time to time. You are responsible for ensuring that you maintain regular backup copies of your files, use antivirus software (if using your own computer), and schedule enough time when completing an assignment to allow for delays due to technical difficulties. Computer viruses, crashed hard drives, lost or corrupted files, incompatible file formats, and similar mishaps are common issues when using technology, and are not acceptable grounds for a deadline extension.

#### **ELECTRONIC DEVICES POLICY**

During tutorial and class time, you are strongly encouraged to use your computers or tablet only for taking notes and online student interactions. Other uses are not permitted.

### **ACCESSIBILITY NEEDS AND SERVICES**

The University of Toronto is committed to accessibility. If you require accommodations for a disability, or have any accessibility concerns about the course, the classroom or course materials, please contact Accessibility Services as soon as possible: <a href="https://studentlife.utoronto.ca/task\_levels/accessibility-and-academic-accommodations/">https://studentlife.utoronto.ca/task\_levels/accessibility-and-academic-accommodations/</a>

The University is committed to developing an accessible learning environment that provides reasonable accommodations to enable students with disabilities to meet the essential academic requirements of the University's course and programs. Please be aware of the academic accommodation policies and resources page on the Provost's website: <a href="https://www.viceprovoststudents.utoronto.ca/students/academic-accommodation/">https://www.viceprovoststudents.utoronto.ca/students/academic-accommodation/</a>

Accessibility Remote/Online Learning information and resources are available at: <a href="https://studentlife.utoronto.ca/service/accessibility-services-resource-library/">https://studentlife.utoronto.ca/service/accessibility-services-resource-library/</a>

As well, if there are things that we can do to facilitate your learning, or that we need to know as members of the teaching team, please contact the instructor during the first few weeks of the course

#### **ACADEMIC INTEGRITY AND PLAGIARISM**

Academic integrity is fundamental to learning and scholarship at the University of Toronto. Participating honestly, respectfully, responsibly, and fairly in this academic community ensures that the U of T degree

that you earn will be valued as a true indication of your individual academic achievement, and will continue to receive the respect and recognition it deserves.

Familiarise yourself with the University of Toronto's Code of Behaviour on Academic Matters (http://www.governingcouncil.utoronto.ca/policies/behaveac.htm). It is the rule book for academic behaviour at UT, and you are expected to know the rules. Potential offences include, but are not limited to:

### In papers and assignments:

- Using someone else's ideas or words without appropriate acknowledgement.
- Copying material word-for-word from a source (including lecture and study group notes) and not placing the words within quotation marks.
- Submitting your own work in more than one course without the permission of the instructor.
- Making up sources or facts. Using an AI tool to write your assignment.
- Including references to sources that you did not use.
- Obtaining or providing unauthorised assistance on any assignment including
  - working in groups on assignments that are supposed to be individual work,
  - having someone rewrite or add material to your work while "editing".
- Lending your work to a classmate who submits it as his/her own without your permission.

#### On tests and exams:

- Using or possessing any unauthorised aid, including a cell phone.
- Looking at someone else's answers
- Letting someone else look at your answers.
- Misrepresenting your identity.
- Submitting an altered test for re-grading.

### Misrepresentation:

- Falsifying or altering any documentation required by the University, including doctor's notes.
- Falsifying institutional documents or grades.

You can get further guidance on academic integrity at: www.artsci.utoronto.ca/osai/students

To remind you of these expectations, and help you avoid accidental offences, I will post an **Academic Integrity Checklist** with each assignment on Quercus. **By submitting your assignment, you confirm that you have read the checklist and affirm that its statements are true**.

The University of Toronto treats cases of academic misconduct very seriously. All suspected cases of academic dishonesty will be investigated following the procedures outlined in the Code. The consequences for academic misconduct can be severe, including a failure in the course and a notation on your transcript. If you have any questions about what is or is not permitted in this course, please do not hesitate to contact me. If you have questions about appropriate research and citation methods, seek out additional information from me, or from other available campus resources like the U of T Writing Website.

If you are experiencing personal challenges that are having an impact on your academic work, please speak to the instructor or seek the advice of your college registrar.

### **UNIVERSITY OF TORONTO WRITING CENTRES**

Students having difficulty with writing skills, or those who would simply like to improve their ability, are encouraged to consult the writing centre affiliated with their college at U of T. The writing centres offer free individual tutoring, group workshops, and other resources. For more information, see <a href="https://writing.utoronto.ca/writing-centres/arts-and-science">https://writing.utoronto.ca/writing-centres/arts-and-science</a>. Students may book up to 2 sessions/week.

#### OTHER AVAILABLE SERVICES

The following are some important links to help you with academic and/or technical service and support:

- General student services / resources at <u>Student Life</u>
- <u>University of Toronto Libraries</u>
- Online research through <u>University Libraries Research</u>
- Academic Success Centre
- Technical Support/Quercus Support

Ja	nuary					
Sun	Mon	Tue	Wed 1	<b>2</b>	7 Fri	Sat 4
5	6 Term begins	7 Class 1	8	9	10	11
12	13	14 Class 2	15	16	17	18
19	20	21 Class 3	22	23	24	25
26	27	<b>28</b> Class 4	29	30 Quiz #1 begins: Noon	31 Quiz #1 closes at 11:59 PM	
						025

						1
2	3	<b>4</b> Class 5	5	6	7	8
9	10	11 Class 6	12	13	14	15
16	17 Reading Week =>	18	19 Deadline to request extensions for A#1	20	21 <= Reading Week Assignment #1 Due	22
23	24	25 Class 7	26	27	28	

M	larch					
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	Class 8	5	6 Quiz #2 opens at Noon	Quiz #2 closes at 11:59	8
9	10 Course drop date	11	12	13	14	15
16	17	18 Class 10	19	20	21	22
23	24	25 Class 11	26	27	28	29
30	31					
					2	025

pril					
Mon	Tue  1 Class 12	<b>2</b>	Thu  3 Ouiz #3 opens at Noon	Fri  Quiz #3 closes at 11:59 PM	Sat <b>5</b>
7	8	Last day to request extensions for A#2	10	11 Assignment #2 Due	12
14	15	16	17	18	19
21	22	23	24	25	26
28	29	30			
					025
	7 14 21	7 8 14 15 21 22	7 8 9 ast taylor request the state of AAZ	Tue   Wed   Thu	The   Wed   Thu   Fri