



**University  
of Manitoba**

**Clayton H. Riddell Faculty of Environment, Earth, and Resources  
Department of Environment and Geography**

**Environmental Science II: Issues  
ENVR 2000 A02  
Fall 2023**

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### Course details

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<b>Course Title &amp; Number:</b>	Environmental Science II: Issues, ENVR 2000 A02
<b>Number of Credit Hours:</b>	3
<b>Class Times &amp; Days of Week:</b>	Sept. 6, 2023 – Dec. 11, 2022 Tuesday, Thursday   8:30am – 9:45am
<b>Location for classes:</b>	221 Wallace, with some classes potentially online

### Instructor Contact Information

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<b>Instructor(s) Name:</b>	Kale Kostick
<b>Preferred Form of Address:</b>	Kale
<b>Office Hours or Availability:</b>	Please email me at any point with questions or requests to meet. <u>Ensure your subject line starts with 'ENVR2000:'</u>
<b>Email:</b>	<a href="mailto:kale.kostick@umanitoba.ca">kale.kostick@umanitoba.ca</a> E-mails will be answered within 24 hours Mon-Fri.
<b>Contact:</b>	Students should contact me via email.

### Course Description

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This course will review the major features of the structure and function of natural systems along with the degree to which these have been compromised in the Anthropocene. The main components of the course will concentrate on the identification of the issues that underlie environmental degradation, while exploring alternative conditions that have the potential to reverse current trends and ultimately contribute to ecological sustainability.

### General Course Information

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This course is meant to engage students on issues of the environment and the well-being of humans and the natural world. We will explore issues from a foundation of understanding of the science behind the issue, the historical context, and technical and social solutions. Issues explored include long-term, systemic issues in addition to topics currently in the media.

### Course Goal

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The goal of this course is to explore the complexities of environmental issues, leading to a fuller understanding of the problems and multi-dimensional solutions available.

### Intended Learning Outcomes

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Students will be fluent in the basic terminology of the discipline, able to comment on complex environmental issues, have an in-depth understanding of environmental problems and potential solutions, and have demonstrated experience working towards solutions to environmental problems locally or globally.

## Textbook, Readings, Materials

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**Recommended Text:** Environment: The Science Behind the Studies, 3<sup>rd</sup> Edition  
Withgott, Laposata, and Murck, Editors, 2018, Pearson Canada

To purchase e-book: <http://bookstore.umanitoba.ca/CourseMaterials.aspx>

## Course Technology

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**Course Resources:** Course notes, detailed instruction on assignments and general course communications are posted on UM Learn (Announcements). All assignments and exams unless otherwise noted are submitted in person.

## Class Communication

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The University requires all students to activate an official University email account. You are required to obtain and use your U of M email account for all communication between yourself and the university:

[http://umanitoba.ca/admin/governance/governing\\_documents/community/electronic\\_communication\\_with\\_students\\_policy.html](http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html)

Please note that all communication between myself and you as a student must comply with the electronic communication with student policy. For full details of the Electronic Communication with Students please visit: [https://umanitoba.ca/governance/sites/governance/files/2021-06/Electronic%20Communication%20with%20Students%20Policy%20-%202013\\_09\\_01%20RF.pdf](https://umanitoba.ca/governance/sites/governance/files/2021-06/Electronic%20Communication%20with%20Students%20Policy%20-%202013_09_01%20RF.pdf)

## Student Guidelines

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**Attend Class (in-person):** I strongly recommend you attend class and ask questions when you are in class. I encourage dialogue within the classroom and ask that you always remain respectful.

**Attend Class (online):** Should technology allow, I will be recording all in-person lectures so that they can be viewed online. If you choose to attend class online instead of in-person, know that my focus will be the students that are in class. Therefore, if you have a question, I welcome you put it in the chat box, but I will not be addressing them until class is over. I welcome other students to answer questions in the chat while I am delivering material in an appropriate manner. If you message me privately, I will do my best to not acknowledge your name. If you message publicly, I will acknowledge you personally. Some classes are scheduled to be delivered online.

**Viewing Recordings:** Should technology allow, and I can successfully record in-person lectures, all recordings can be found through UM Learn for you to refer to.

**VOLUNTARY WITHDRAWAL DATE:** Tuesday, November 21, 2022

**Academic Integrity:** Please refer to “Schedule A” policies and resources for students as posted on UM Learn. In addition, please note that;

- (i) group projects are subject to the rules of academic dishonesty;
- (ii) group members must ensure that a group project adheres to the principles of academic integrity;
- (iii) if a group member is not acting with academic integrity or not performing their duties as agreed, please advise the Instructor as soon as possible to resolve any potential problems as early as possible;
- (iv) (iv) collaboration between students is encouraged for understanding material, proof-reading a peer’s work, making suggestions on approach, etc.; however,
- (v) all work is to be completed independently unless otherwise specified.

## **Student Accessibility Services**

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### **Student Accessibility Services (SAS)**

If you are a student with a disability, please contact SAS for academic accommodation supports and services such as note-taking, interpreting, assistive technology, and exam accommodations. Students who have, or think they may have, a disability (e.g. mental illness, learning, medical, hearing, injury-related, visual) are invited to contact SAS to arrange a confidential consultation.

Student Accessibility Services <http://umanitoba.ca/student/saa/accessibility/>  
520 University Centre 204-474-7423 [Student\\_accessibility@umanitoba.ca](mailto:Student_accessibility@umanitoba.ca)

## **Instructor Guidelines**

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Classes will feature traditional lectures, audiovisual materials, and interactive methods to engage students, spark discussions, and provoke thought. Every contribution is valued, so please actively participate. My role is to introduce you to various issues in the discipline, present foundational theories, emerging practices, and real-world examples. Your engagement and participation are vital for maximizing your educational experience.

## **Copyright**

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Kale Kostick of the University of Manitoba holds copyright over the course materials, presentations and lectures which form part of this course. No audio or video recording of lectures or presentations can be distributed to people outside of the course in whole or in part without permission of Kale Kostick. Course materials (both paper and digital) are for the participant’s private study and research.

## Class Schedule

This schedule is subject to change at the discretion of the instructor but such changes are subject to Section 2.8 of the – [ROASS](#)- Procedure.

The subject matter will be any combination of the following topics (or additional ones) dependent on time:

DATE	TOPIC	READINGS
7-Sep	Syllabus review and Introduction to Enviro Science	2-21
12-Sep	History of the Environmental Movement	-
14-Sep	Human Population Growth & Sustainable Cities	153-163, 173-175
19-Sep		
21-Sep	Global Climate Change, GHGs, Fossil Fuels, Impacts	420-461, 466-478
26-Sep		
28-Sep	<b>QUIZ: multiple choice, true and false, short answer</b>	-
3-Oct	Agriculture, Food and Biotechnology	207-238
5-Oct	<b>PRESENTER: Brock Edwards   PhD Candidate, CEOS</b>	-
10-Oct	Agriculture, Food and Biotechnology	207-238
12-Oct	<b>PRESENTER: The Dogs Run Farm</b>	-
17-Oct	Soils and Soil Resources	178-203
19-Oct	Conservation of Species and Habitats	242-278
24-Oct	<b>MID TERM: multiple choice, true and false, matching, short answer, long answer</b>	-
26-Oct	Forests and Forest Management	282-309
31-Oct	Freshwater Systems and Water Resources	313-347
2-Nov	Atmospheric Science and Air Pollution	383-416
7-Nov	Environmental Health and Hazards	597-629
9-Nov	<b>QUIZ: multiple choice, true and false, short answer</b>	-
14-Nov	<b>Reading Week – no class</b>	-
16-Nov		
21-Nov	Managing our Waste	566-593
23-Nov	<b>Class presentations</b>	-
28-Nov		
30-Nov	<b>PRESENTER: Whitney Crooks   CAP PM</b>	-
5-Dec	Strategies for Sustainability	700-724
7-Dec	Final exam review	-
TBD	<b>FINAL EXAM: multiple choice, true and false, matching, short answer, long answer</b>	-

## Course Evaluation Methods

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In many cases there is a grader-marker to assist with the marking load. In each case, you will receive a grade posted on UM Learn. The grade will also have constructive comments intended to assist you in your academic performance in this course. If you have any questions about the grading, please bring them to my attention and arrange a time to meet with me.

Students will be evaluated through the following assignments:

Evaluation	Date	Percentage
Quiz 1	28-Sep	10%
Midterm (cumulative)	24-Oct	30%
Quiz 2	9-Nov	10%
Assignment 1 - waste game	20-Nov	5%
Assignment 2 - presentations	Nov 23 & 28	10%
Final exam (cumulative)	TBA	35%
<b>Total:</b>		100%

## Grading

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Letter Grade	Percentage out of 100
A+	90-100
A	80-89
B+	75-79
B	70-74
C+	65-69
C	60-64
D	50-59
F	0-49

## Quiz/ Test Grading Times

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Marks on graded quizzes and tests will be available within <1 week after the submission date whenever possible. We will go over tests in class.

## Quiz Make-Up and Late Policy

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From the University of Manitoba (UM) Provost and Vice-President Academic:

“Students who are unable to meet a course requirement due to medical circumstances are not required to submit medical notes. However, students are required to contact their instructor or academic advisor by email to inform of the missed work and to make arrangements for extensions, deferrals, or make-up assignments. Please follow these guidelines if you are unable to meet an academic requirement for your courses:

- Contact your instructor (me) for term work such as quizzes, midterms and assignments **no later than 24 hours before**.
- Contact an advisor in your faculty/college/school of registration for a missed final exam (scheduled in the final examination period).
- Inform your instructor/advisor as soon as possible do not delay. Note for final exams, students must contact **within 48 hours** of the date of the final exam.
- Email your instructor/advisor from a **U of M email address** and include your full name, student number, course number, and academic work that was missed.”

### **Guest Speakers**

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The course aims to engage students with experienced experts who will present their ideas in class, followed by discussions. Each speaker will present a specific viewpoint on a given issue. Analyzing the information is a key expectation, and formulating questions about the content is the mechanism for doing so. To prepare for interactions with guest speakers, reading and written assignments may be given in advance. Since students will only meet the speaker once, coming to class prepared to discuss homework activities and ask questions is essential for maximizing the learning experience. Full engagement during class is expected, and there may be follow-up activities related to the class discussions.

### **Traditional Territories Acknowledgement**

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The University of Manitoba campuses are located on original lands of Anishinaabeg, Cree, Oji-Cree, Dakota, and Dene peoples, and on the homeland of the Métis Nation. We respect the Treaties that were made on these territories, we acknowledge the harms and mistakes of the past, and we dedicate ourselves to move forward in partnership with Indigenous communities in a spirit of reconciliation and collaboration. Where I teach from, the water comes from Treaty 3, the shores of Shoal Lake First Nations, and the electricity comes from generating stations on rivers in Treaty Areas 1, 3 and 5.

Because this land acknowledgement does not constitute reconciliation by virtue of its inclusion here, we will intentionally work towards reconciliation in this course by identifying and questioning the ways in which the changing climate disproportionately affects those who suffer from socioeconomic inequalities, including Indigenous peoples and people of color.

### **Anti-Oppression**

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I honour your identities (e.g., race, gender, sexual orientation, class, size, ability, etc.) and commit to interrupting any form of oppression based on these categories and amplifying under-represented voices. As I am still working on challenging my own assumptions as a white, cis woman, I invite you to bring to my attention anything I say, do, or allow that conflicts with this aim by [submitting anonymous feedback](#) to me.

### **Access**

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If you are facing any challenges related to food or housing and feel that it may be affecting your learning in this course, please reach out to me if you are comfortable doing so. I will do my



best to help you access available resources and we can work together to ensure you finish the course successfully

### **COVID-19**

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Campus operations are subject to change. Should the instructor be required to stay at home for an extended period and an alternate instructor not be available, the course may move temporarily to a remote delivery format.

If you become sick or are required to self-isolate, notify your instructor by email so you can develop a plan to complete the course learning outcomes while you are absent. If you have symptoms, do not come to campus or any UM facilities. Complete the self assessment on the Manitoba Public Health site and follow the guidelines, which may include booking a COVID-19 test.