



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

## **Introduction to Environment and Health**

**ENVR 3400**

## TABLE OF CONTENTS

<b>COURSE DETAILS</b> .....	<b>3</b>
<b>INSTRUCTOR CONTACT INFORMATION</b> .....	<b>3</b>
<b>GENERAL COURSE INFORMATION</b> .....	<b>4</b>
<b>COURSE GOALS</b> .....	<b>4</b>
<b>INTENDED LEARNING OUTCOMES</b> .....	<b>4</b>
<b>USING COPYRIGHTED MATERIAL</b> .....	<b>4</b>
<b>RECORDING CLASS LECTURES</b> .....	<b>4</b>
<b>TEXTBOOK, READINGS, MATERIALS</b> .....	<b>5</b>
<b>COURSE TECHNOLOGY</b> .....	<b>5</b>
<b>CLASS COMMUNICATION</b> .....	<b>5</b>
<b>EXPECTATIONS: STUDENT</b> .....	<b>5</b>
<b>STUDENTS ACCESSIBILITY SERVICES</b> .....	<b>6</b>
<b>EXPECTATIONS: INSTRUCTOR</b> .....	<b>6</b>
<b>CLASS SCHEDULE</b> .....	<b>7</b>
<b>COURSE EVALUATION METHODS</b> .....	<b>7</b>
<b>GRADING</b> .....	<b>8</b>
<b>REFERENCING STYLE</b> .....	<b>8</b>
<b>ASSIGNMENT DESCRIPTIONS</b> .....	<b>8</b>
<b>ASSIGNMENT GRADING TIMES</b> .....	<b>8</b>
<b>ASSIGNMENT EXTENSION AND LATE SUBMISSION POLICY</b> .....	<b>9</b>

---

## COURSE DETAILS

---

<b>Course Title &amp; Number:</b>	Introduction to Environment and Health ENVR 3400
<b>Number of Credit Hours:</b>	3
<b>Class Times &amp; Days of Week:</b>	Tue / Thur 1:00-2:15pm
<b>Location for classes/labs/tutorials:</b>	217 Wallace
<b>Pre-Requisites:</b>	Prerequisite: 60 credit hours of university credit.

---

## Instructor Contact Information

---

<b>Instructor(s) Name:</b>	Kristina Hunter, M.Sc.
<b>Preferred Form of Address:</b>	Kristina or Ms. Hunter
<b>Office Location:</b>	250 Wallace Building
<b>Office Hours or Availability:</b>	Mon 10:45-11:15 am Wed 10:45-11:15 am Thur 11:15-11:45 am
<b>Office Phone No.</b>	204-474-6461 (no return calls made)
<b>Email:</b>	<a href="mailto:Kristina.Hunter@umanitoba.ca">Kristina.Hunter@umanitoba.ca</a> E-mails will usually be answered within 24 hours Mon-Fri.
<b>Contact:</b>	I look forward to meeting every student in person, and you can always see me after class, or during my office hours. Some correspondence will require documentation and therefor is best done by e-mail (such as requesting special permission).

---

COURSE DESCRIPTION: An overview of the linkages between human health and environmental issues. The course discusses the nature of environmental hazards, human exposure and health outcomes. Major environmental and human health issues such as air pollution, hazardous substances, endocrine disruptors and products in the home are covered.

---

### **General Course Information**

---

Environment and Health relates to the human health impacts from toxins, pollution, and other environmental factors. This course focuses on the toxins and pollutants in our consumer goods, food, air and water, primarily of human origin.

---

### **Course Goals**

---

The goals of this course are to facilitate an understanding of the principles of human health impacts related to contaminants in our environment, the main sources of these contaminants, and basic control measures.

---

### **Intended Learning Outcomes**

---

Students will be able to discuss the principles of toxicity testing; describe the human health outcomes as a result of contaminants of interest; discuss the sources and control measures of environmental contaminants; assess environmental health hazards using field measurements, compare results to allowable levels, and draw conclusions from the findings.

---

### **Using Copyrighted Material**

---

Please respect copyright. We will use copyrighted content in this course. I have ensured that the content I use is appropriately acknowledged and is copied in accordance with copyright laws and University guidelines. Copyrighted works, including those created by me, are made available for private study and research and must not be distributed in any format without permission. Do not upload copyrighted works to a learning management system (such as UM Learn), or any website, unless an exception to the *Copyright Act* applies or written permission has been confirmed. For more information, see the University's Copyright Office website at <http://umanitoba.ca/copyright/> or contact [um\\_copyright@umanitoba.ca](mailto:um_copyright@umanitoba.ca).

---

### **Recording Class Lectures**

---

Kristina Hunter holds copyright over the course materials, presentations and lectures which form part of this course. No audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without express permission of Kristina Hunter. Recordings made for student accessibility purposes may not be shared or posted online and must be deleted within 2 weeks of the end of classes. Course materials (both paper and digital) are for the participant's private study and research.

## **Textbook, Readings, Materials**

---

SUPPLEMENTARY RESOURCE: 2017 TLVs and BEIs, American Conference of Governmental Industrial Hygienists; 10th edition (March 2017)

## **Course Technology**

---

IN THE CLASSROOM: It is the general University of Manitoba policy that all technology resources are to be used in a responsible, efficient, ethical and legal manner. The student can use all technology in classroom setting only for educational purposes approved by instructor and/or the University of Manitoba Disability Services. Student should not participate in personal direct electronic messaging / posting activities (e-mail, texting, video or voice chat, wikis, blogs, social networking (e.g. Facebook) online and offline “gaming” during scheduled class time. If student is on call (emergency) the student should switch his/her cell phone on vibrate mode and leave the classroom before using it. (©[S Kondrashov](#). Used with permission)

COURSE RESOURCES: Course notes, detailed instruction on assignments and general course communications are posted on UM Learn. All assignments unless otherwise noted are submitted on UM Learn.

STUDENT RESOURCES: The Centre for Advancement of Teaching and Learning has instructional videos on accessing and contributing to wikis and blogs that may be useful. [http://intranet.umanitoba.ca/academic\\_support/Centre\\_for\\_the\\_Advancement\\_of\\_Teaching\\_& Learning/resources/wikis\\_blogs.html](http://intranet.umanitoba.ca/academic_support/Centre_for_the_Advancement_of_Teaching_&_Learning/resources/wikis_blogs.html).

## **Class Communication**

---

Please note that all communication between myself and you as a student must comply with the electronic communication with student policy ([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)). You are required to obtain and use your U of M email account for all communication between yourself and the university.

## **Expectations: Student**

---

ATTEND CLASS: The class is intended to be not just one-way delivery of information but rather a facilitated dialogue around materials presented. For this reason, your attendance in class is required so that you can be a part of the conversation and contribute your knowledge, experiences and opinions. As such, you are expected to be in attendance both physically and mentally.

Students are expected to attend all classes and may be debarred from the course, resulting in a failing grade if more than 2 weeks (4 classes) are missed without adequate medical documentation or compassionate grounds. Students should refer to the General Academic Regulations and Requirements, Attendance at Class and Debarment, found in the University of Manitoba General Calendar.

[http://umanitoba.ca/student/records/leave\\_return/695.html](http://umanitoba.ca/student/records/leave_return/695.html)

VOLUNTARY WITHDRAWAL DATE: November 18th, 2019

**ACT WITH PROFESSIONALISM:** In the University setting, we are in professional relationships. These relationships are characterized by demonstrated respect between all parties, students and instructors, and students and other students. This includes professional and respectful language, tone of voice and demeanour. This is an excellent time to practice the professionalism required in the workforce, especially in your e-mail and in-person communications.

**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 his or her duties as agreed, please advise the Instructor as soon as possible to resolve any potential problems as early as possible;
- (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.

---

## **Students Accessibility Services**

---

### **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)

---

## **Expectations: Instructor**

---

I approach teaching as a journey and it is my job to bring my students along on this journey of discovery. I attempt to spark passion for knowledge, critical thinking and the environment. Students learn and I learn as we take this journey together.

You can expect classes with traditional lecture styles, the use of audio visual materials, and multiple methods of engaging students in the material, eliciting discussion and provoking thought. Every contribution is valued, please bring yours.

I see it as my job to bring to you the various issues associated with the discipline, to show you the foundational theories, the emerging practices and examples from the real-world. It is up to you to engage and participate to get the most out of your education.

## **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.

<i><b>Date</b></i>	<i><b>Topic</b></i>	<i><b>Assignments</b></i>
Sept. 5	Introductions	
Sept. 10-12	Body burdens and Hazards	
Sept. 17-19	Health Outcomes	
Sept. 24-26	Answering the FAQs	FAQ Assignment Due Sept. 24
Oct. 1-3	Air Pollution	
Oct. 8-10	IAQ	
Oct. 15-17	Investigating IAQ	Research Plan Draft Due Oct. 15, Final Due Oct. 17
Oct. 22-24	Endocrine Disruptors	
Oct. 29-31	Around the Home	Determinants of Health Due Oct. 31
Nov. 5-7	Water and Wastewater	
Nov. 11-15	<b><i>Fall Term Break – no classes</i></b>	
Nov. 19-21	Research Results	Research Projects Due Nov. 19
Nov. 26-28	Food, Agriculture, and Radiation	
Dec. 3-5	In-class Exam / Wrap-up	Final Exam Dec. 3

## **Course Evaluation Methods**

---

In many cases there is a grader-marker to assist with the marking load. In each case you will receive a grade based on the break-down provided in the Assignment Overview 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 me during my office hours.

Students will be evaluated through the following assignments:

FAQ Assignment (pairs)	20%
Determinants of Health	30%
Research Plan (group)	10%
Research Projects (group)	20%
Final Exam (in class)	20%
<b>TOTAL</b>	<b>100</b>

## Grading

---

Letter Grade	Percentage out of 100	
A+	90-100	Exceptional
A	80-89	Excellent
B+	75-79	Very Good
B	70-74	Good
C+	65-69	Satisfactory
C	60-64	Adequate
D	50-59	Marginal
F	0-49	Failure

## Referencing Style

---

Any of the main referencing styles may be used in class, but in any case the reference must include an in-text citation (either numerical or author date) close to the idea, fact, image or quote being cited as well as a full citation at the end of the document. Students may choose to use APA, MLA, Chicago, CSE or other recognized referencing style.

## Assignment Descriptions

---

All assignments are described along with the grading rubric in the Assignment Overview as posted on UM Learn.

## Assignment Grading Times

---

Graded assignments will be returned 2 weeks after the submission date whenever possible. All materials submitted electronically on UM Learn will be graded and comments provided on UM Learn.



## **Assignment Extension and Late Submission Policy**

---

All assignments are due at the beginning of class (1:00 pm). Late submissions may be accepted based on medical or compassionate grounds. Extensions are not normally granted unless there are extenuating circumstances.