



**University of Manitoba
Clayton Riddell Faculty
Department of Environment and Geography**

**ENVR/GEOG 3850
Sustainable Manitoba
Winter 2019**

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Course Details

Course Title & Number:	Sustainable Manitoba ENVR/GEOG 3850
Number of Credit Hours:	3 Credit Hours
Class Times & Days of Week:	Wed 7-9:45pm
Location for classes/labs/tutorials:	217 Wallace Building
Pre-Requisites:	60 credit hours

Instructor Contact Information

Instructor(s) Name:	Dr. Erin McCance
Preferred Form of Address:	Dr. McCance
Office Location:	220B Sinnott Bldg. (Department of Env. Geog. Office)
Office Hours or Availability:	Monday 12:30-1:30pm; Tuesday 12:00 -1:00 pm; Friday 1:00 – 2:00 pm by Appointment Only. Please email to schedule an appointment.
Office Phone No.	204-232-2941
Email:	E-mail: erin.mccance@umanitoba.ca Communication with students is conducted only through an @myumanitoba.ca email account. All email communication will be responded to within 48 hours
Contact:	Students should contact me by email.

Course Description

The course approaches local sustainability issues from an interdisciplinary perspective. By looking at the ecological, social, and economic aspects across a variety of discipline perspectives, a better understand of sustainability is achieved. The range of perspectives is achieved through participation of guest speakers across a diversity of sectors such as government, business/industry, environmental organizations, universities, and colleges. Field excursions outside of the classroom are also integrated into the course.

General Course Information

The course is meant to engage students on a broad range of sustainability issues investigated on a local as well as regional scale. The course addresses themes from an interdisciplinary perspective considering the ecological, social, and economic perspective of sustainability issues. The course explores the importance of sustainability, education for sustainability, human/nature relationships, and innovations currently in place in Manitoba to address sustainability issues.

Course Goal

The goal of this course is to explore local sustainability issues and learn what is being undertaken to address the issue of sustainability and to identify what can be done personally to improve personal sustainability related to each issue discussed.

Intended Learning Outcomes

Students will gain an understanding of their personal and their peers' human/nature relationship and be able to explain what sustainability means. Further, upon completion of this course, students will be able to comment on complex sustainability issues, have an in-depth understanding of sustainability issues and potential solutions, and have demonstrated experience working towards solutions to sustainability issues at the local level.

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.

Recording Class Lectures

Dr. McCance 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. Course materials (both print and digital) are for the participant's private study and research.

Textbook, Readings, Materials

REQUIRED TEXT:

Live close to home. 1st Edition
Peter Denton, 2016, Rocky Mountain Books
Ltd. ISBN 987-1-77160-182-5 (hardcover)
ISBN 987-1-77160-183

Further, reading materials are provided throughout term and posted on U of M Learn.

Course Technology

It is the general University of Manitoba policy that all technology resources are to be used in a responsible, efficient, ethical, and legal manner. Student may use all technology in classroom setting only for educational purposes as approved by instructor and/or the University of Manitoba Disability Services. Students 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.

Class Communication

The University requires all students to activate an official University email account. For full details of the Electronic Communication with Students please visit:

http://umanitoba.ca/admin/governance/media/Electronic_Communication_with_Students_Policy_-_2014_06_05.pdf. 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).

You are required to obtain and use your U of M email account for all communication between yourself and the university.

Expectations: I Expect You To

The lecture material covered in each class is provided on UM Learn. Since the notes are made available to you, I expect each student to be actively involved in class discussions. Students are required to attend every class. I expect you to come to class each week having read the outlined chapter in the text book and be prepared to discuss the topics outlined. You may use your computer to take notes during class. Students are expected to attend all classes and actively participate in the seminar discussions. I will treat you with respect and would appreciate the same courtesy in return. See [Respectful Work and Learning Environment Policy](#).

Academic Integrity:

In addition to the general information about academic integrity and student discipline that you provide (Schedule “A” Policies and Resources), references to specific course requirements for individual work and group work, such as:

- (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) Students should also be made aware of any specific instructions concerning study groups and individual assignments;
- (iv) The limits of collaboration on assignments should be defined as explicitly as possible; and
- (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

Expectations: You Can Expect Me To

I will be in class for 10 minutes prior to and after the class time. I will ensure that course grade requirements are clearly articulated and repeated several times throughout the course. I will be very responsive to student emails and phone calls and will return those messages within 48 hours. Should the student wish to discuss course materials in more detail, I will arrange a time during office hours (or another mutually agreeable time) with the student to meet. I will be consistent with all of my marking and constructive feedback and I ask that in return, students meet the deadlines that are clearly defined within this syllabus.

Class Schedule

Jan. 9	<p>Introduction Review of course syllabus Assignments, Term Project Description Introductory Lecture – What is sustainability?</p>
Jan. 16	<p>Biophillic Cities Urban spaces designed for biodiversity Nature deficit disorder Guest Speaker: Dr. Jim Duncan, Retired Director, Fish and Wildlife Manitoba Sustainable Development</p>

- Jan. 23 **Green Buildings/LEED Design**
Biomimicry Architecture
High Density, Walkability, Energy Alternatives
Guest Speaker: Alyssa Schwan, Department of Architecture
William Dowie LEED Accredited Professional specializing in Operations and Maintenance
Team Projects must be approved by the end of this class.
- Jan. 30 **Wastewater Control and Treatment North End Wastewater Pollution Control Centre - Field trip #1**
2230 Main Street
Monday 9:00 am – 11:00 am
Tuesday 9:00 am – 11:00 am
Wednesday 9:00 am-11:00 am
Thursday 9:00 am- 11:00 am
- Jan 30 **Waste Management Field Trip #2**
Bus Transportation Provided
Please see details provided within the Jan 30 folder on U of M Learn
2:30-4:30pm
- Feb. 6 **Sustainability on Campus University of Manitoba Sustainability Strategy**
Resource Conservation and Efficiency
Transportation and Accessibility
Ecology and Environment
Landscapes and Land Use
Climate & Campus Life
Leanne Shewchuk, Director, Office of Sustainability
- Feb. 13 **Term Project Progress Oral Presentations & Reports**
- Feb. 20 **No Class – Mid-term Break**
- Feb. 27 **No class from Jan 30th week field trips (2 in one week)**
- Mar. 6 **Sustainable Agriculture**
What is Sustainable Agriculture?
Biodiversity targets, landscape design
Husbandry practices
Dr. Charlene Berkvens, Veterinarian, Manitoba Sustainable Development/Fostering Change Farms
- Mar. 16 ***Saturday Class**
Sustainable Agriculture Field Trip #3
Fostering Change Farms
Bus Transportation Provided

Please see details provided within the Jan 30 folder on U of M Learn
12:00-5:00pm

- Mar. 20 **Voluntary Withdrawal Date**
- Mar. 20 **Made in Manitoba Climate and Green Plan**
Discussions on Sustainability in Manitoba, Climate Change efforts/targets
Water and Waste, Development Certification Standards
**Guest Speaker: The Honourable Rochelle Squires
and Adrian Vannahme, Policy Analyst**
- Mar. 27 **Oral Presentations – Term Projects**
Field Trip Assignments - Due
- Apr. 3 **Oral Presentations – Term Projects**
- Apr. 8 **Term Papers Due**

Team Term Project

Students will be placed in groups of three or four and will be required to identify and research a sustainable initiative in Manitoba. Team Projects must be organized and approved by the course instructor by January 23, 2019. No two teams will be able to investigate the same sustainability initiative in Manitoba; therefore, students are encouraged to identify their team project focus areas as soon as possible and have it approved by the course instructor. Topic selection will work on a 'first come, first serve' basis. The objective of the team project is to select a sustainability initiative in Manitoba, research the issue, and to identify the strengths and opportunities of the initiative. Using other jurisdictions as an example, students are asked to identify ways to enhance the initiative and develop recommendations for potential future direction of the initiative. The team projects should be developed using knowledge from internet sources, peer-reviewed information from scientific literature, as well as views from local stakeholders.

Each team must prepare:

- 1) A team project progress report (1-2 pages in length) as well as a 5-minute team project oral presentation to be delivered on Feb. 13, 2019, worth 10% of the student's overall course grade. A copy of the oral presentation as well as the written progress reports are due by 4 pm on Feb 13, 2019 into the dropbox provided on U of M Learn.
- 2) A Final Team Project oral presentation. The Final Team Project oral presentation should be 12 minutes in length (followed by 5 minutes of questions from professionals in the room). Student teams will be scheduled to present their Final Team Project oral presentations on either March 27 or April 3, 2019. Should a Student Team prefer one presentation date over another, they must request their date of preference to their instructor by email. The scheduling of the presentations will work on a 'first come, first serve' basis. A copy of each team's Final Team Project oral presentation must be submitted by 4pm on the date of their presentation into the dropbox provided on U of M Learn. The Final Team Project oral presentation is worth 15% of the student's overall course grade.

- 3) A Final Team Project Written Report. The Final Team Project written report should be 20-25 pages in length, written in Times Roman Numeral 11 pt font, 1.5-line spacing. The written report should be polished and include proper and through citation using MLA style of citation. The Final Team Project Written Reports are due on April 8, 2019 by 4pm into the dropbox provided on U of M Learn. The Final Team Project Written Report is worth 35% of the student's overall course grade.

Field Trip Assignment

Each student must attend at minimum of 1 of the 3 field trips offered throughout the course. Each student will provide the date(s) for the field trip that they will be attending. Failure to provide this information as identified will result in a deduction to the student's participation grade.

Based on one of the three field trips offered during the semester, each student is asked to provide a comparative analysis of the sustainable operations explained during the field trip in relation to other similar sustainable operations in other Canadian jurisdictions. Students are asked to compare and contrast the operations explained on the field trip, 'the Manitoban example', to three other Canadian examples. Students need to identify which of the four approaches they feel is the best (most sustainable, innovative, feasible, pragmatic, etc.). Students should use peer-reviewed literature and other information sources, to support their assessment. The Field Trip Assignment is worth 25% of the student's total course grade (the grade includes field trip attendance). Field Trip Assignments should be 8-10 pages in length (approximately 2000 words) written using Times Roman Numeral Font, 11pt. and APA style of citation. Field Trip Assignments are due March 27, 2019 by 4 pm into the dropbox folder provided on U of M Learn. Late Assignments will NOT be accepted unless for documented reasons arranged beforehand with the instructor in compliance with the University of Manitoba Student Guidelines and Policies.

Course Evaluation Methods

Students are evaluated based on their participation, their written work through a course field trip assignment, progress report, as well as a term paper. Further, students are evaluated based on their oral presentation skills. The following table provides a detailed breakdown of the assessment tool and grade allocation breakdown:

Due Date:	Assessment Tool	Value of Final Grade
Ongoing	Class Participation/field trip sign-up/attendance	15%
Feb 13, 2019	Term Project Progress Oral Presentation and Report	10%
March 27, 2019	Field Trip Assignment/Attendance	25%
March 27/April 3, 2019	Final Term Paper Oral Presentation	15%
April 8, 2019	Final Term Paper	35%
Total		100%

Grading

The grading scale used for this course is:

Letter Grade	Percentage out of 100	Grade Point Range	Final Grade Point
A+	90-100	4.25-4.5	4.5
A	80-89	3.75-4.24	4.0
B+	75-79	3.25-3.74	3.5
B	70-74	2.75-3.24	3.0
C+	65-69	2.25-2.74	2.5
C	60-64	2.0-2.24	2.0
D	50-59	Less than 2.0	1.0
F	Less than 50		0

Late Assignment and Presentation Absence Policy

Should a student not attend the in-class oral presentations or fail to submit their assignments/term reports on time, as indicated within this syllabus, they will receive a zero. In accordance with the University of Manitoba Policy for Assignments, Reports, Tests, and Presentations: Without permission of the instructor and supporting documentation (e.g. medical certificate) or reasons provided, acquired **PRIOR TO THE DUE DATE**, will result in a grade of “F”.

Academic Supports: The University of Manitoba provides many services and supports to encourage good scholarship and overall health and wellness including: instruction to improve writing skills, best use practices for copyrighted materials, and supports for studying for examinations etc., personal health (both mental and physical) including: student advocacy, student counseling and health services, etc. and supports for assaults (both verbal and physical). These are designed to make each student’s experience positive, safe and assist in successful completion of courses and programs of study. The University provides and encourages all members and students to maintain a respectful work and learning environment. Policies have been developed regarding threatening behavior, or assaults whether verbal or physical to support victims and discipline offenders. For more information on these see Schedule “A” found at the end of the course syllabus.

Schedule “A”

Section (a) Academic Supports

Writing and Learning Support: The Academic Learning Centre (ALC) offers services that may be helpful to you throughout your academic program. Through the ALC, you can meet with a learning specialist to discuss concerns such as time management, learning strategies, and test-taking strategies. The ALC also offers peer supported study groups called Supplemental Instruction (SI) for certain courses that students have typically found difficult. In these study groups, students have opportunities to ask questions, compare notes, discuss content, solve practice problems, and develop new study strategies in a group-learning format.

You can also meet one-to-one with a writing tutor who can give you feedback at any stage of the writing process, whether you are just beginning to work on a written assignment or already have a draft. If you are interested in meeting with a writing tutor, reserve your appointment two to three days in advance of the time you would like to meet. Also, plan to meet with a writing tutor a few days before your paper is due so that you have time to work with the tutor's feedback.

These Academic Learning Centre services are free for U of M students. For more information, please visit the Academic Learning Centre website at: <http://umanitoba.ca/student/academiclearning/>

You can also contact the Academic Learning Centre by calling 204-480-1481 or by visiting 201 Tier Building.

University of Manitoba Libraries (UML): As the primary contact for all research needs, your liaison librarian (if they weren't recently fired by Central Administration) can play a vital role when completing academic papers and assignments. Liaisons can answer questions about managing citations, or locating appropriate resources, and will address any other concerns you may have, regarding the research process. Liaisons can be contacted by email or phone, and are also available to meet with you in-person. A complete list of liaison librarians can be found by subject: <http://bit.ly/WcEbA1> or name: <http://bit.ly/1tJ0bB4>

In addition, general library assistance is provided in person at 19 University Libraries, located on both the Fort Garry and Bannatyne campuses, as well as in many Winnipeg hospitals. For a listing of all libraries, please consult the following: <http://bit.ly/1sXe6RA>. When working remotely, students can also receive help online, via the Ask-a-Librarian chat found on the Libraries' homepage: www.umanitoba.ca/libraries

Section (b) Mental Health

For 24/7 mental health support, contact the Mobile Crisis Service at 204-940-1781.

Student Counselling Centre: Contact SCC if you are concerned about any aspect of your mental health, including anxiety, stress, or depression, or for help with relationships or other life concerns. SCC offers crisis services as well as individual, couple, and group counselling. Student Counselling Centre: <http://umanitoba.ca/student/counselling/> 474 University Centre S207 Medical Services (204) 474-8592

Student Support Case Management: Contact the Student Support Case Management team if you are concerned about yourself or another student and don't know where to turn. SSCM helps connect students with on and off campus resources, provides safety planning, and offers other supports, including consultation, educational workshops, and referral to the STATIS threat assessment team. Student Support Intake Assistant <http://umanitoba.ca/student/case-manager/index.html> 520 University Centre (204) 474-7423

University Health Service: Contact UHS for any medical concerns, including mental health problems. UHS offers a full range of medical services to students, including psychiatric consultation. University Health Service <http://umanitoba.ca/student/health/> 104 University Centre, Fort Garry Campus (204) 474-8411 (Business hours or after hours/urgent calls)

Health and Wellness: Contact our Health and Wellness Educator if you are interested in information on a broad range of health topics, including physical and mental health concerns, alcohol and substance use harms, and sexual assault. Health and Wellness Educator <http://umanitoba.ca/student/health-wellness/welcome.html> Katie.Kutryk@umanitoba.ca 469 University Centre (204) 295-9032

Live Well @ UofM: For comprehensive information about the full range of health and wellness resources available on campus, visit the Live Well @ UofM site: <http://umanitoba.ca/student/livewell/index.html>