# University of Manitoba Department of Environment and Geography ENVR 4000 - Sustainable Water Management Winter 2020 (3 ch)

**UofM Instructor** 

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## A. Goals:

Sustainable Water Management is a 3 credit hour project course in the Department of Environment and Geography that will be offered over the winter term in 2020. The intent is to provide students with an understanding of real-world issues in the water resource management field, as identified in conjunction with representatives of government and other agencies in Manitoba. A secondary goal of the course is to build the skills and abilities of students to work as members of a team, a requirement that is becoming increasingly important in professional environmental careers.

# **B.** Objectives:

Upon completion of this course, students will be able to:

- 1. Understand the nature of sustainable water management issues and strategies in the Province of Manitoba; and
- 2. For a specific issue, prepare a written/electronic and oral submission as part of a research team that:
  - a. highlights the background and historical development of the issue,
  - b. identifies appropriate objectives and methods for investigation of the issue,
  - c. summarizes results and conclusions of the investigation, and
  - d. provides recommendations to provincial and other agencies for enhancing sustainable water management initiatives as related to the issue.

## **C.** Course Content:

The course will consist of self-directed studies by teams of 3 or 4 University of Manitoba students on sustainable water management issues and strategies as identified for the Province of Manitoba as of Winter 2020. In particular, each of the Agency Project Contacts listed above will serve as key resource persons and will provide liaison for this area. The course will emphasize real-world, hands-on experience in dealing with the various stakeholders involved in the sustainable water management issue

in question. This may involve meetings outside of regular University class times and at various locations across the Province.

Students will be expected to determine the most effective strategies that might be applied to the issue under consideration after careful investigation of various alternatives, and also to explain why their approach is considered to be optimal.

Research teams are expected to contact and discuss specific questions about their research projects with 'experts' in the area of study, as well as locate background literature, web-based resources, and other documentation for their specific project. Students will be evaluated through an individual assignment, research progress summaries, the final team report, and oral presentations.

Possible research projects will be discussed at a first meeting of the class scheduled for Monday January 6, 2020 from 230-400 pm in 217 Wallace. A follow-up meeting to confirm team projects will be held on Monday January 13 at 230 pm. If students are unable to attend these meetings, please contact the course instructor as soon as possible.

## D. Evaluation

•	Team Progress Summary 1 (Feb. 3, 230 pm, 217 Wallace)	5%
•	Team Progress Summary 2 (Feb. 24, 230 pm – 217 Wallace)	5%
•	Team Progress Summary 3 (Mar. 16, 230 pm – 217 Wallace)	5%
•	Team Progress Summary 4 (Mar. 30, 230 pm – 217 Wallace	5%
•	Oral Presentations of Team Project (Apr. 6, 230 pm, 217 Wallace)	20%
•	Final Team Project Submission (Due Apr. 13)	40%
•	Individual Assignment (Due Apr. 17)	20%

Note that electronic submission of all team submissions and Powerpoints for the oral presentations should be done using the UofM Learn site (<a href="https://universityofmanitoba.desire2learn.com">https://universityofmanitoba.desire2learn.com</a>).

# E. Individual Assignment

In a report of no more than 1500 words, define the meaning of the term 'sustainable water management,' and critically evaluate the benefits and shortcomings of its use in the Province of Manitoba. Be sure to support your arguments with references to the course team projects as well as other appropriate sources of information. Reports are to be submitted to the UofM Learn site by April 17, 20120

## F. General

Requirements for this course and rules regarding plagiarism may be found in the General Academic Regulations and Policy Section of the University of Manitoba Graduate and Undergraduate Calendars. Schedule A below provides additional information relating to University of Manitoba services and academic supports for students

Evaluative feedback will be provided upon request of the individual student or team before the voluntary withdrawal deadline date (March 18, 2020).

# G. Grading Scale

The grading scale to be used for this course is:

$\mathbf{A}$ +	90-100	<b>C</b> +	65-69
A	80-89	C	60-64
$\mathbf{B}$ +	<i>75-79</i>	D	50-59
В	70-74	${f F}$	0-49

#### SCHEDULE 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: <a href="http://umanitoba.ca/student/academiclearning/">http://umanitoba.ca/student/academiclearning/</a>

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: <a href="http://bit.ly/WcEbA1">http://bit.ly/ltJ0bB4</a>.

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: <a href="http://bit.ly/1sXe6RA">http://bit.ly/1sXe6RA</a>. When working remotely, students can also receive help online, via the Ask-a-Librarian chat found on the Libraries' homepage: <a href="http://www.umanitoba.ca/libraries">www.umanitoba.ca/libraries</a>

### **Mental Health**

- For 24/7 mental health support, contact the Mobile Crisis Service at 204-940-1781.
- Student Counseling 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. 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.
  <a href="http://umanitoba.ca/student/case-manager/index.html">http://umanitoba.ca/student/case-manager/index.html</a>; 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. <a href="http://umanitoba.ca/student/health/">http://umanitoba.ca/student/health/</a>; 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. <a href="http://umanitoba.ca/student/health-">http://umanitoba.ca/student/health-</a>

wellness/welcome.html; 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

**Copyright Information** - All students are required to respect copyright as per Canada's *Copyright Act*. Staff and students play a key role in the University's copyright compliance as we balance user rights for educational purposes with the rights of content creators from around the world. The Copyright Office provides copyright resources and support for all members of the University of Manitoba community. For more information: <a href="http://umanitoba.ca/copyright">http://umanitoba.ca/copyright</a>

#### Rights and Responsibilities

- Your rights and responsibilities: As a student of the University of Manitoba you have rights and responsibilities. It is important for you to know what you can expect from the University as a student and to understand what the University expects from you. Become familiar with the policies and procedures of the University and the regulations that are specific to your faculty, college or school.
- The <u>Academic Calendar http://umanitoba.ca/student/records/academiccalendar.html</u> is one important source of information. View the sections *University Policies and Procedures* and *General Academic Regulations*.
- While all of the information contained in these two sections is important, the following information is highlighted.
- If you have questions about your grades, talk to your instructor. There is a process for term work and final grade appeals. Note that
  you have the right to access your final examination scripts. See the Registrar's Office website for more information including appeal
  deadline dates and the appeal form: <a href="http://umanitoba.ca/registrar/">http://umanitoba.ca/registrar/</a>
- You are expected to view the General Academic Regulation section within the Academic Calendar and specifically read the
   Academic Integrity regulation. Consult the course syllabus or ask your instructor for additional information about demonstrating
   academic integrity in your academic work. Visit the Academic Integrity Site for tools and support
   <a href="http://umanitoba.ca/academicintegrity/">http://umanitoba.ca/academicintegrity/</a> View the Student Academic Misconduct procedure for more information.
- The University is committed to a respectful work and learning environment. You have the right to be treated with respect and you are expected conduct yourself in an appropriate respectful manner. Policies governing behavior are included in the next section.

#### **Policies and Services Information**

- Respectful Work and Learning Environment: http://umanitoba.ca/admin/governance/governing\_documents/community/230.html
- Student Discipline http://umanitoba.ca/admin/governance/governing\_documents/students/student\_discipline.html and,
- Violent or Threatening Behaviour <a href="http://umanitoba.ca/admin/governance/governing\_documents/community/669.html">http://umanitoba.ca/admin/governance/governing\_documents/community/669.html</a>
  - If you experience Sexual Assault or know a member of the University community who has, it is important to know there is a policy that provides information about the supports available to those who disclose and outlines a process for reporting. The Sexual Assault policy may be found at: <a href="http://umanitoba.ca/admin/governance/governing\_documents/community/230.html">http://umanitoba.ca/admin/governance/governing\_documents/community/230.html</a> More information and resources can be found by reviewing the Sexual Assault site <a href="http://umanitoba.ca/student/sexual-assault/">http://umanitoba.ca/student/sexual-assault/</a>

Intellectual Property - For information about rights and responsibilities regarding Intellectual Property view the policy: <a href="http://umanitoba.ca/admin/governance/media/Intellectual Property Policy - 2013 10 01.pdf">http://umanitoba.ca/admin/governance/media/Intellectual Property Policy - 2013 10 01.pdf</a>