

Course Outline
ENVR 4050-K01, GEOG 4050, GEOG 7010
Fall -2019
Ecosystem Management

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

General Details:

Instructor: Dr. Johny Stephen

Office: 254 Wallace Building

Office hours: Tuesday: 10:00 - 12:30pm
Thursday: 12:30 - 3:00pm
Or by appointment

E-mail: johny.stephen@umanitoba.ca

Please use course number in all correspondence i.e ENVR 4050-K01/GEOG 4050/GEOG 7010

*Communication with students is only conducted only through @myumanitoba.ca email accounts.

Lecture: Friday 1:30-4:15pm

Lecture Room: 217 Wallace Building

UM-LEARN is the primary online source for updated handouts and outlines, class presentations and other links.

Course Outline:

This course helps students to explore the practical applications of ecosystem management as an environmental management approach. It engages with ecological science, environmental policy, and resource management approaches in the large and small-scale planning of ecosystems. The course reviews ecological principles and traces the historical development of the ecosystem concept. Comparisons are made to other possible environmental management approaches. There is an emphasis on practical learning by students through field visits and group discussions.

Course Description:

The course is seminar based during which students will take an active role in discussing and questioning specific aspects of, or approaches to, ecosystem management. Background reading

materials are provided for each class. Students should prepare themselves for weekly seminars and class discussions by referring to the designated reading materials as well as additional materials of their own choosing (i.e. web searches, newspapers, and scientific peer reviewed literature). Student need to be prepared to discuss and introduce the reading materials in each class.

Course Materials:

Required Text Book:

Meffe, G., Nielsen, L., Knight, R. L., & Schenborn, D. (2012). Ecosystem management: adaptive, community-based conservation. Island Press.

Reference: Shepherd, G. 2004. The ecosystem approach to implementation, IUCN, Gland (<http://data.iucn.org/dbtw-wpd/edocs/CEM-003.pdf>): 5 steps)

Various references materials and handouts will be provided from time to time. Students are expected to use libraries, the media, the Internet and other sources to obtain materials for use during the course.

Grading/Evaluation Scheme:

Students are evaluated through class assignments, a team-based term assignment, and oral presentations. Resource materials and lecture content are posted on the U of M Learn website: (<https://universityofmanitoba.desire2learn.com/>) so students should be sure to have availed themselves of a University of Manitoba computer account.

Assignment-1	15%
Assignment-2	20%
Presentation on progress plus one page summary	10%
Oral Presentation of Ecosystem Management Plans	10%
Final Assignment (Ecosystem Management Plans)	45%
TOTAL	100%

Expectations:

Full attendance and active participation is recommended. Punctuality is greatly appreciated. Advanced reading, taking notes during class and summarizing notes are strongly recommended. Being a seminar based class the students are expected to have come read and actively participate in the class.

Outside reading on environmental responsibilities and related issues is expected. Use of additional material is encouraged to augment lectures. Environment Canada, Manitoba Conservation and other websites as well as newspapers, magazines, etc. should be used as sources of current environmental information. Students are expected to raise relevant questions during class and participate during class discussions.

Assignments:

The assignments are field based and Assignment one carries 15% and Assignment 2 carries 20% in the course. On the day of each field trip, the assignment is handed out and explained. Students have two weeks to complete their assignments and submit their completed assignments into the U of M Learn by 4pm on the assignment due date. All assignments should be written in Times Roman 12 pt Font and double spaced. All assignments must be submitted electronically. Assignments must use scientific literature and be properly cited. Late/incomplete assignments are subject to penalty as outlined within this syllabus.

Term Paper: Ecosystem Management Plan

Team Projects are organized and assigned by September 27, 2019. It is expected that groups of 4 or 5 students (maximum) each take a team approach to ecosystem management, and prepare and present an Ecosystem Management Plan or enhance an existing Management Plan based on current knowledge from internet sources, information in the scientific literature and other sources, and views from local stakeholders, on a 'location of interest' to members of the team. Locations should be selected by the team through consensus, on a 'first come, first serve' basis and must be approved by the course instructor by September 27th 2019.

Ecosystem Management plan options*:

- Riding Mountain National Park
- Lake Winnipeg or Lake Manitoba
- Duck Mountains Provincial Park
- Winnipeg Airport Authority Landscape
- White Water Lake
- CFB Shilo
- Sprucewoods Provincial Park
- Lake St. Martin

- Wuskwatim Generating Station
- East side of Lake Winnipeg (GHA 26, 17, 17A)

*Teams are expected choose from the above options as they represent a local context, however teams that are interested to explore other ecosystems can do so after consultation with the me.

Each team organizes themselves and divides the labor according to their individual knowledge and strengths for all aspects of Ecosystem Management Plan, including researching the literature, contacting local area individuals, preparing the plan, and providing a formal oral summary in class. A Progress Summary of each team's approach to the assignment is presented in class on October 25, 2019 (2-page maximum and 10-minute presentation per team). The team based presentations of progress contribute 10% of the total grades. This will be graded as a team. Feedback will be given on each plan in class and the team is expected to incorporate those in the final plan.

The Final Management Plan should

- Be presented in a professional manner in about 15 to 20 Pages
- Make use of technical and non technical literature to support the plan.
- The role/responsibility of each student must be briefly described in the Acknowledgements to the Plan. Please ascribing chapters or sections of the plans to individual work
- The overall coherence and presentation of the plan will play a significant part in the assessment.
- The format for the Plan is flexible, but should contain all of the information needed to lead to implementation of the team's ideas and recommendations.
- Ecosystem Management Plans should be professionally presented in Times Roman 12 pt. Font and double spaced.
- Late/Incomplete management plans will be subject to penalty as outlined within this syllabus.
- Follow APA (American Psychological Association) reference style.

A final oral presentation made by the full team for each plan is presented to the class and to discipline specialists (if available) on November 22 and 29th. The scheduling of which team presents on which day is based on a 'first come, first serve' basis. Students are requested to email me their preference as soon as possible to secure their day and time to present. The final oral presentation of each team's Ecosystem Management Plans should be 20 to 25 mins in

length (Each member gets at least 5 min to present their part) and are worth 10% of the total course grade.

The final Ecosystem Management plan for each team is due December 09, 2019 by 4 pm into the U of M Learn Dropbox. The Final Ecosystem Management Plans are worth 45% of the total course grade. Late/Incomplete management plans will be subject to penalty as outlined within this syllabus.

Graduate students will be expected to provide a longer, more detailed response to assignment questions, a more technical term paper, and a 25-minute oral presentation.

Late submission Policy for Assignments, Reports and Presentations:

Late submissions will be awarded an automatic “F” without permission of the instructor and supporting documentation (e.g. medical certificate) or reasons provided. Failure to hand-in one or more assignments/reports will result in a grade of “F” for the course. Students are not permitted to hand in assignments late, except for documented medical or compassionate reasons.

Requirements for course attendance and rules regarding plagiarism may be found in the General Academic Regulations and Policy Section of the University of Manitoba Graduate and Undergraduate Calendars. Note: electronic submission is required for all assignments using the Dropbox function on the U of M Learn site. Assignment Submissions: All assignments MUST be complete and MUST open to be considered finished. I will accept MS Word documents or PDFs.

Final Grade:

The grading scale used by the Department of Environment and Geography 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

Academic Dishonesty: Students should acquaint themselves with the University's policy on plagiarism and cheating and examination impersonation in the University of Manitoba Undergraduate Calendar. Further details can be found at http://umanitoba.ca/student/resource/student_advocacy/academicintegrity/about.html.

Tentative Lecture, Test and Assignment Schedule – ENVR- 4050-K01, GEOG 4050, GEOG 7010

Lecture	Date	Lecture Topics*	Readings
1	Sept. 6	Introduction History and Introducing Ecosystem Management. Writing a technical paper - Overview	Chapter 2 (Meffe & Nielson)
2	Sept. 13	Writing an Ecosystem management Plan; example of Parkland Mews (Mr.Robert Wheeldon). Overview of the steps and planning	
3	Sept. 20	Step-1 Stakeholders and Ecosystem Management Boundaries	Chapter 10 (Meffe &Nielson)
4	Sept. 27	Field Session– Living Prairie Museum (Assignment-1)	
5	Oct. 04	Step-2 Ecosystem Structure and Function Setting up for Assignment -2 (Mr. Robert Wheeldon)	Chapter 5 & 6 (Meffe & Nielson)
6	Oct. 11	Field Session – Parkland Mews (Assignment-2)	
7	Oct. 18	Step-3 Economic issues surrounding Eco system Management. Submission of Assignment- 1	Chapter 8 (Meffe & Nielson)
8	Oct .25	Presentation of Progress in feedback (10 % of course grade)	
9	Nov. 01	Step 4 & 5 Adaptive Management and long term goals Submission of Assignment- 2	Chapter 11 (Meffe &Nielson)
10	Nov. 08	Environmental Ethics Marine Ecosystem Management	Assigned Reading
Mid Semester Break 12 to 15 Nov			
Nov. 18 Voluntary Withdrawal from the Course			
11	Nov. 22	Other environmental management approaches and its relation to Ecosystem approach	Assigned Reading
12	Nov. 29	Presentation of plans	
13	Dec. 06	Presentation of plans and wrap up	
Submission of final Plan Dec 09th 2019			

**Lecture content and schedule subject to change.*

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

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.

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