

MOUNT ROYAL UNIVERSITY
DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES
COURSE OUTLINE FOR ENVS 4421
Environmental Resource Management
Winter 2020

Instructors: Meg Stewart
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Lecture: Tuesday 10:00 am – 12:50 pm
Room B206

Office hours: By appointment

Textbook: Resource and Environmental Management in Canada by Bruce Mitchell is recommended but not required
Selected papers will be assigned for reading and class discussion

Course Outline:

The following topics will be covered by a combination of lectures, seminars, and guest speakers. See tentative course schedule attached.

- Approaches to resource and environmental management
- Forestry and Canada's forest sector
- Urban environmental management
- Aboriginal Peoples in relation to resource and environmental management
- Resource and environmental management in northern Canada
- Climate change and technology
- Global perspectives on environmental resource management
- Water resources
- Agriculture, food, and fisheries
- Energy resources
- Mineral resources

University-wide Learning Outcomes:

Mount Royal University has identified six university-wide learning outcomes that it believes are critical in order to prepare its graduates for workplace success and a life of continuous learning: Thinking Skills, Communication, Information Access and Retrieval, Ethical Reasoning, Group Effectiveness, and Computer Literacy. This course will specifically address the following:

- Communication and Information Access and Retrieval: oral and written presentation skills will be developed and assessed by means of class participation, written assignments, and oral presentations
- Thinking Skills, Group Effectiveness Skills, and Ethical Reasoning will be developed during interactive lectures and seminar discussions

Course Learning Outcomes:

This course will cover the development and use of natural resources with an emphasis on the interrelationship between industrial activities and resource consumption, and their effects on the biosphere.

The main objectives of this course are to understand how complex human-technology-environment systems influence effective resource management.

By the end of this course, the student should understand how natural resources are used and extracted, how resource extraction affects the biosphere, and how proper resource management can maintain both the state of the resource for the use of future generations and the integrity of the ecosystem from which it is extracted.

Evaluation:

Seminar presentations	30%
Term paper	30%
Reading assignments	30%
Participation	10%

Letter grades will be assigned as follows:

95 - 100	A+	4.00	Excellent. Superior performance, showing comprehensive understanding of subject matter.
85 - 94	A	4.00	
80 - 84	A-	3.70	
77 - 79	B+	3.30	Good. Clearly above average performance with knowledge of subject matter generally complete.
73 - 76	B	3.00	
70 - 72	B-	2.70	
67 - 69	C+	2.30	Satisfactory. Basic understanding of subject matter.
63 - 66	C	2.00	
60 - 62	C-	1.70	
55 - 59	D+	1.30	Marginal performance. (Generally insufficient preparation for subsequent courses.)
50 - 54	D	1.00	
0 - 49	F	0.00	Fail. Assigned to students: a) who do not meet the academic requirements of the course, or b) who cease to continue in the course, but do not withdraw as per Mount Royal University policy.

Policies & Procedures:

Students are held accountable and responsible for policies outlined in the academic calendar including the following Mount Royal University policies and procedures:

1. Students not intending to complete the course must withdraw on or before November 15, 2016 in order to receive a "W" grade. If this deadline is missed the student will receive an "F" grade.
2. Information on Academic Regulations and Academic Status are given on pages 32-50 of the current academic calendar. Deferred examination policy refers to both final and mid-term exams.
3. Students must be available up to the last day of the final exam period.
4. The Code of Student Conduct and Student Rights and Responsibilities are available at mtroyal.ca/studentconduct. Please read. MRU students are expected to consistently submit original work, give credit to other peoples' ideas and work and complete all submissions independently and honestly. Academic misconduct occurs when a student/s misrepresents facts or information and gains an unfair academic advantage over other students. Specifically, the giving, taking or presenting of information or material that unethically or dishonestly benefits an individual student or a group of students in the achievement of academic merit. Plagiarism refers to a form of academic misconduct that occurs when an individual leads others to believe that work has been authored by them when the work has been authored by another individual.

Helpful services available to guide you towards success at MRU:

Mental Health: Are you feeling overwhelmed, stressed and anxious? Finding it hard to be motivated, meet deadlines or attend class? Having a hard time sleeping, concentrating or retaining information no matter how much you study? Help is available! See the MRU [Mental Health Website](#) for all resources.

<http://www.mtroval.ca/CampusServices/WellnessServices/MentalHealth/index.htm>

Diversity, inclusion, human rights, and sexual violence: You are encouraged to find general information as well as information on how to address issues related to diversity, inclusion, discrimination, harassment, accommodation, healthy relationships and dating, domestic and sexual violence. See the [MRU Diversity and Human Rights Website](#).

<http://www.mtroval.ca/CampusServices/CampusResources/DiversityHumanRights/index.htm>

Student Learning Services (Room EL2100 Riddell Library and Learning Centre): Take charge of your learning by working with Writing and Learning Strategists, Math Learning Strategists, Learning Peers, and Mentors. Develop stronger studying and writing skills, work toward a better understanding of course content, hone math and problem-solving skills, and connect with mentors to help you succeed at university and beyond.

Writing and Learning Strategists can help you with writing, organizing ideas, referencing, learning, time management, planning presentations, academic reading strategies, exam preparation strategies, and more. Math Learning Strategists support foundational mathematics practice and problem-solving strategies needed for many math, science, business, and statistics-based courses.

Appointments are free of charge and can be booked online (through MyMRU, Academic Success tab), by phone, or in person. Workshops are also offered for a variety of popular topics, and you can find the schedule online.

Iniskim Centre (Room T110): The Iniskim Centre offers programs and services to increase the engagement and success of Indigenous students while raising awareness of Indigenous peoples and cultures. The centre recognizes

and respects the diversity of all Indigenous peoples of Canada.

Office of Campus Equity and Meaningful Inclusion (Room C201): The Office of Campus Equity & Meaningful Inclusion offers programs and services to foster a safe, respectful, equitable and meaningfully inclusive campus for every member of the Mount Royal community.

Career Services (Room A200): Career Services provides opportunities for students to clarify, experience and achieve their career and employment goals.

Plan your career: If you are not sure what program or major to choose, wondering if graduate school is an option, want to explore career options related to your program of study - meet with our certified career development team.

Find a job: Build experience while you study and find relevant employment through: resume critiques, recruitment events, the Student and Graduate online job bank and our online resource centre. Connect with us in person through individual appointments, workshops, and on-campus recruitment events.

Accessibility Services (Room Y201): Accessibility Services assists the University in creating an accessible learning environment that encourages full participation in academic courses for students experiencing disability-related barriers.

If you are a student experiencing a disability-related barrier who may require academic accommodation and have not yet registered with Accessibility Services, please contact their office. You must be registered with Accessibility Services to access academic accommodations.

If you are a student with an Academic Accommodation Letter and Professor Acknowledgement form from Accessibility Services, please make an appointment with me as soon as possible to discuss your accommodations in a private and confidential setting.

Tentative Course Schedule: ENVS 4421 Winter 2020

Date	Topic	Deadlines/Events
January 7	Introduction	
January 14	Approaches to resource and environmental management	
January 21	Forestry; urban environmental management	
January 28	Aboriginal Peoples; resource and environmental management in northern Canada	
February 4	Climate change and technology	
February 11	Global perspectives; 3-minute seminars	3-minute seminar presentations
February 18	Reading week: no class	No class
February 25	Guest speaker: Dr. Chui-Ling Tam, University of Calgary	Term paper first draft due February 27 11:59 PM MST
March 3	Water resources	Water resources seminar; reading assignment 1 due*
March 10	Agriculture, food, and fisheries	Agriculture, food, fisheries seminar; reading assignment 2 due*
March 17	Energy resources Guest speaker: Sherry Becker, Imperial Oil	Energy resources seminar; reading assignment 3 due*
March 24	Mineral resources	Mineral resources seminar; reading assignment 4 due*
March 31	Wrap-up	Final term paper due March 27 11:59 PM MST

*Reading assignment not required for students presenting seminars this week