

GEOG 356: Resources Management

Course Outline -- Fall 2012

Instructor: Dr. Ryan Bullock
Lectures: 11:30am-12:50pm, Tues & Thurs in Physics (PHY) 235
Office Hours: 12:50pm-1:50pm, Tues & Thurs in EV1 238 or by appointment
E-mail: rclbullo@uwaterloo.ca (see note below¹)
Twitter: @uw_geog356
Teaching Assistant: Erika Zell (ezell@uwaterloo.ca)

Overview

This course is an introduction to the varied terminology, theories, methods and problems currently found in resources management. Through an examination of various behavioural, institutional, socio-economic and environmental dimensions of decision making in resources management, students will gain an appreciation of the challenges facing various actors in resources management. Methods and techniques used in resource management will be outlined. Case studies and examples drawn from around the world will be used to clarify theoretical and methodological issues. As the course proceeds, students are encouraged to question approaches currently used in resources management, to understand some of the challenges facing resource managers and other actors, and to develop a personal set of 'core concepts' to be applied in future resource management-linked employment settings.

Course Objectives

1. To provide a conceptual and methodological framework for the examination of resource management problems.
2. To illuminate and contrast resource management theory with case studies from Canada and other countries.
3. To examine newly-emerging trends in resource management.

Course Evaluation

Assignment 1 Restocking Resource Inventories Group Project		
	Proposal	10%
	Final Written Report	25%
Assignment 2 Promotion and Awareness Pamphlet (Community Forestry)		
		15%
Test 1	For lectures, readings & A/V materials from Sept.11 - Oct. 18	25%
Test 2	For lectures, readings & A/V materials from Oct. 25 - Nov. 27	25%

¹ From Monday to Friday, I make every effort to answer emails within 24hrs. Email sent on the weekend will normally be answered on the following Monday.

Required Readings (All available through the UW Library system)

- Arnstein, S. R. 1969. Ladder of citizen participation. *Journal of the American Institute of Planners* 35(4): 216-224.
- Beckley, T. M. 1998. Moving toward consensus-based forest management: A comparison of industrial, co-managed, community and small private forests in Canada. *The Forestry Chronicle* 74(5): 736-744.
- Bryant, R. and G. Wilson. 1998. Rethinking environmental management. *Progress in Human Geography* 22(3): 321-343.
- Bullock, R. and K. Hanna. 2012. *Community Forestry: Local Values, Conflict and Forest Governance*. Cambridge, UK: Cambridge University Press.
- Clapp, R.A. 1998. The resource cycle in forestry and fishing. *The Canadian Geographer* 42(2): 129-144.
- Hessing, M., Howlett, M. and T. Summerville. 2005. *Canadian Natural Resource and Environmental Policy: Political Economy and Public Policy* (2nd edition). Vancouver: UBC Press.
- Holling, C. S. and G. K. Meffe. 1996. Command and control and the pathology of natural resource management. *Conservation Biology* 10(2): 328-337.
- Hutchings, J., Walters, C. and R. Haedrich. 1997. Is scientific inquiry incompatible with government information control? *Canadian Journal of Fisheries and Aquatic Sciences* 54: 1198-1210.
- Ludwig, D., R. Hilborn, et al. 1993. Uncertainty, resource exploitation, and conservation: Lessons from history. *Ecological Applications* 3(4): 547-548.
- Plummer, R. and D. Armitage. 2007. Crossing boundaries, crossing scales: The evolution of environment and resource co-management. *Geography Compass* (1/4): 834-849.
- Randall, J., and R. Ironside. 1996. Communities in the edge: An economic geography and resource-dependent communities in Canada. *The Canadian Geographer* 40(1): 17-35.
- Sherry, E. and H. Myers. 2002. Traditional Environmental Knowledge in practice. *Society and Natural and Resources* 15: 345-358.
- Smith, P. 1996. Aboriginal participation in forest management: Not just another "stakeholder". *The Forestry Chronicle* 72(1): 2 & 5.
- Teitelbaum, S., Beckley, T. and S. Nadeau. 2006. A national portrait of community forestry on public land in Canada. *The Forestry Chronicle* 82(3): 416-428.

Suggested Readings

- Northey, M. and D. Knight. 2007. *Making Sense: A Student's Guide to Research and Writing: Geography and Environmental Sciences* (3rd edition). Don Mills: Oxford University Press.

COURSE AND UNIVERSITY POLICIES

Attendance

Attendance in class is at your discretion. However, all materials and discussion covered in-class are valid "testable" materials (E.g. discussion points or questions asked of the class, graphics-heavy images such as maps or diagrams). Also, all A/V materials (e.g. DVDs screened in class) are valid, "testable" materials, so complete notes should be taken for each DVD screened. For these reasons, attendance at each lecture is HIGHLY RECOMMENDED.

Missed Test:

All tests are mandatory, and thus, every effort should be made to attend each test. The only exceptions to this are those students who have a valid medical reason, personal or family emergency, etc:

1. Valid medical reason such as illness or accident (appropriate proof such as a Doctor's note is required);
2. Personal or family emergency, death in the family, etc (with suitable proof where possible);
3. Other valid reasons beyond the control of the student (to be approved on a case-by-case basis at the discretion of the instructor). If you know in advance that you will not be able to make a test, please contact the instructor as far in advance as possible to discuss alternatives.

If you miss a test for any reason:

- 1) Communicate to the instructor the reason you missed the test.
- 2) IMPORTANT! As soon as possible, please obtain a valid medical, counselor's or other 'proof of absence' note explaining the reason for your absence, degree of incapacitation, dates covered by the note, etc. Please make a copy of this note and give the copy to your instructor by hand or scanned and sent by email (email to rclbullo@uwaterloo.ca).

If you miss a test but do NOT have a doctor's/counselor's note or other valid explanation for your absence: Explain the reason for your absence to the instructor (ideally during a help session or by email). The instructor will determine on a case-by-case basis whether an alternative arrangement can be made, or whether to assign a 'zero' on the test.

Note for students with disabilities:

The Office for Persons with Disabilities (OPD), located in Needles Hall, Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the OPD at the beginning of each academic term.

Religious Observances:

Please inform the instructor **at the beginning of term** if special accommodation needs to be made for religious observances that are not otherwise accounted for in the scheduling of classes and tests.

Academic Integrity:

In order to maintain a culture of academic integrity, members of the University of Waterloo community are expected to promote honesty, trust, fairness, respect and responsibility. www.uwaterloo.ca/academicintegrity/. Students who are unsure what constitutes an academic offence are requested to visit the on-line tutorial at: <http://www.lib.uwaterloo.ca/ait/>

Discipline:

A student is expected to know what constitutes academic integrity, to avoid committing academic offence, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offense, or who needs help in learning how to avoid offenses (e.g., plagiarism, cheating) or about "rules" for group work/collaboration should seek guidance from the course professor, academic advisor, or the Undergraduate Associate Dean. For information on categories of offences and types of penalties, students should refer to Policy 71, Student Discipline,

www.adm.uwaterloo.ca/infosec/Policies/policy71.htm . For typical penalties, check Guidelines for Assessment of Penalties, www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm

Grievance:

A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read Policy 70 - Student Petitions and Grievances, Section 4, www.adm.uwaterloo.ca/infosec/Policies/policy70.htm. When in doubt please contact your Undergraduate Advisor for details.

Appeals:

A decision made or penalty imposed under Policy 70 - Student Petitions and Grievances (other than a petition) or Policy 71 – (Student Discipline) may be appealed if there is a ground. A student who believes he/she has a ground for an appeal should refer to Policy 72 (Student Appeals) www.adm.uwaterloo.ca/infosec/Policies/policy72.htm

Consequences of Academic Offences:

ENV students are strongly encouraged to review the material provided by the university's Academic Integrity office (see: <http://uwaterloo.ca/academicintegrity/Students/index.html>).

University Policies: Plagiarism

Please familiarize yourself with the University of Waterloo's policy dealing with plagiarism. Be especially careful when using materials obtained from the internet, and be aware that software available to instructors can be used to check student submissions for plagiarism (e.g. [www.Turnitin.com](http://www.turnitin.com)). Plagiarism offences are normally treated quite seriously by the University and can result in significant penalties being assessed (e.g. failing grade on an assignment, repeating a course, suspension or expulsion).

Definition of Plagiarism

"The act of presenting the ideas, words or other intellectual property of another as one's own."

- Source: University of Waterloo, Policy 71.

To Avoid Plagiarism

The use of other people's work **must** be properly acknowledged and referenced in all written material such as take-home examinations, essays, laboratory reports, work-term reports, design projects, statistical data, computer programs and research results. The properly acknowledged use of sources is an accepted and important part of scholarship. Use of such material without complete and unambiguous acknowledgement, however, is an offence under policy 71.

Turnitin:

Plagiarism detection software (Turnitin) may be used to screen any assignments submitted for this course. This is being done to verify use of all material and sources in assignments is documented. If needed, in the first lecture of the Term, details will be provided about the arrangements for the use of Turnitin. NOTE: Students may request an alternative to Turnitin, which is to prepare an annotated bibliography for each assignment. For advice on how to prepare an annotated bibliography, see: <http://www.lib.sfu.ca/help/writing/annotated-bibliography>

Group Work

Group work and collaboration may be allowed and required on both Assignments #1 and #2 and will be outlined specifically in assignment instructions. Each group member is expected to contribute

approximately equal work on the assignment, and to remain in communication with group members throughout the life of the group project (i.e. no group member is allowed to drop out of touch with other group members). After the assignment is submitted, any member of any group will be allowed to submit an assessment of other group members' work. If a *significant* disparity in individual effort is discovered, the member of the group who did NOT contribute equal work may have their final mark adjusted downwards (at the discretion of the instructor). Tests #1 and #2: All tests are to be completed individually. No group work or collaboration is allowed on any test.

Unclaimed Assignments

Unclaimed assignments will be retained until one month after term grades become official in quest. After that time, they will be destroyed in compliance with UW's [confidential shredding procedures](#).

Research Ethics:

Please also note that the 'University of Waterloo requires all research conducted by its students, staff, and faculty which involves humans as participants to undergo prior ethics review and clearance through the Director, Office of Human Research and Animal Care (Office). The ethics review and clearance processes are intended to ensure that projects comply with the Office's Guidelines for Research with Human Participants (Guidelines) as well as those of provincial and federal agencies, and that the safety, rights and welfare of participants are adequately protected. The Guidelines inform researchers about ethical issues and procedures which are of concern when conducting research with humans (e.g. confidentiality, risks and benefits, informed consent process, etc.).

If the development of your research proposal consists of research that involves humans as participants, please contact the course instructor for guidance and see: <http://iris.uwaterloo.ca/ethics/>

(NOTE: this statement is required on all course outlines, but it is not expected that this will apply to any student in GEOG 356 since original research with human subjects, animals, etc. will not be part of course expectations).

Late Assignments:

The assignment will be graded as per the above guidelines, and then **5% will be deducted for each day an assignment is late**. The instructor reserves the right to waive this deduction if the following prevents the student from handing in an assignment on time:

4. Valid medical reason such as illness or accident (appropriate proof such as a Doctor's note is required);
5. Personal or family emergency (with suitable proof where possible);
6. Other valid reasons beyond the control of the student (to be approved on a case-by-case basis at the discretion of the instructor).

NOTE: If you know in advance that you will not be able to meet a particular deadline **for any reason**, please contact the instructor to make alternative arrangements. Also note that late assignments will not be accepted after marked assignments are handed back in class, or after the beginning of the final examination period.

Please ensure that you are diligent in *backing up computer files* and making *draft copies* of all assignments, as computer/disk failures, printer problems, etc, will not normally be considered a valid reason to waive the late assignment deduction. NOTE: Perhaps the easiest way to prevent computer file loss is to send to yourself an email attachment of your assignment after each significant work session.

Grading/Evaluation

Effective Fall 2001, numeric grades on a scale from 0-100 are used in grading all assignments at the University of Waterloo. The following list will give you an idea of the general basis upon which numeric grades are assigned:

90-100%:	Work that shows a high level of initiative and is clearly above and beyond what is expected at a third year level. Referencing, style, grammar/spelling, content and the development of ideas are all superior. (Similar to A and A+ in the previous system)
80-89%:	Work that shows good initiative and is above what is expected at a third year level. Referencing, style, grammar/spelling, content and the development of ideas are all good. (Similar to B+ and A- in the previous system)
70-79%:	Work that shows initiative and is about what is expected at a third year level, but one or more problems are evident in referencing, style, grammar/spelling, content and/or the development of ideas. (Similar to B- and B in the previous system)
60-69%:	Work that does not demonstrate initiative, has a series of problems in referencing, style, grammar/spelling, content and/or the development of ideas, and overall, does not fully convince the reader that the topic has been well considered (Similar to C-, C and C+ in the previous system)
50-59%:	Work that is substandard/sloppy in places, has many problems in referencing, style, grammar/spelling, content and/or the development of ideas, and overall, raises more questions in a reader's mind than the work answers. (Similar to D-, D and D+ in the previous system)
40-49%:	Work that is of consistently poor quality, demonstrates gaps in comprehension of the assigned material, and/or indicates that not enough time was taken to properly address the assignment (Similar to F and F+ in the previous system)
<40:	Work that is clearly of poor quality, demonstrates a lack of comprehension of the assigned material, shows little attempts at a personal development of ideas or efforts to back up arguments with suitable evidence, and/or indicates that the work was completed 'at the last minute'.

Web-based Course Management System

The web-based learning management system "Waterloo LEARN" from Desire2Learn may be used to help manage course materials and to facilitate interactions among the instructor, teaching assistant and students.

Useful Resources and Tips

Full text journal article searches

- <http://scholarsportal.info/>
- <http://www.sciencedirect.com/>
- <http://scholar.google.com/>
- <http://www.scopus.com/scopus/home.url>
- <http://www.scirus.com/srsapp/>
- <http://www.istor.org/search/> (very useful for older, non-electronic articles that have now been scanned)

**to search pdf reports efficiently, add "pdf." to your search keywords in Google Scholar

GEOG 356 Fall 2012 – Draft Lecture Schedule

Week	DATE	TOPIC	READINGS
1	Sept. 11	•Course overview	No readings
	Sept. 13	•Defining “Resources Management” --Assignment #1 explanation--	
2	Sept. 18	•Conflict, Complexity and Uncertainty	Holling & Meffe 1996 Ludwig et. al. 1992
	Sept. 20	•Evolution of Canadian Resource Management	
3	Sept. 25	•Technology, Science & Resource Exploitation	Clapp 1998
	Sept. 27	(“Southbound” video + facilitated discussion)	
4	Oct. 2	•Resource Inventories	Hutchings et al 1997
	Oct. 4	•Restocking Inventories (Video: <i>The Wolves of Yellowstone Park</i>)	
5	Oct. 9	•Ecosystem Approaches and Resilience	Bryant and Wilson 1998
	Oct. 11	•Collaborative and Adaptive Management Assignment 1 Proposals Due Thursday October 11th --Assignment #2 explanation--	
6	Oct. 16	•Wildlife Conservation in the US <i>Guest Speaker: Kristy Bly, Wildlife Biologist, WWF, Guest E-Pres</i>	No readings
	Oct. 18	•Impact Assessment <i>Guest Speaker: Dr. Dan. McCarthy</i>	
7	Oct. 23	TEST #1 in class on Tuesday October 23rd	Arnstein 1969
	Oct. 25	•Resources and the Public(s)	
8	Oct. 30	•Policy Actors, Subsystems and Processes	Hessing et al 2005 (CH 4)** Plummer and Armitage 2009
	Nov. 1	•Public Participation and Co-management	
9	Nov. 6	•Local Knowledge Systems	Sherry and Myers 2002 Smith 1995
	Nov. 8	•Indigenous Peoples and Resources (Video: Indian water rights)	
10	Nov. 13	•Resources and Communities	Ironsides and Randall 1996
	Nov. 15	Assignment #1 Due Thursday November 15th	
11	Nov. 20	•Community Forests/Community Forestry (concepts, issues) (BCCFA video)	Bullock and Hanna 2012 (CH 1)** Beckley 1998 Teitelbaum et al 2006
	Nov. 22	•Community Forests/Community Forestry (cases)	
12	Nov. 27	•Course wrap-up and review Assignment #2 Due Tuesday November 27th	No readings
	Nov. 29	TEST #2 in class Thursday November 29th	

****indicates readings placed on reserve in the Data Porter Library**