

Department of Environment and Geography, University of Manitoba
Environment Field Investigations, Fall 2015
ENVR 3010 K01 or ENVR 3020 K01

Instructor: Rick Baydack (Rick.Baydack@umanitoba.ca) 255 Wallace 474-6776
Classes: Workshops generally off-campus with dates/times to be determined

A. Goals:

Environmental Field Investigations is a 3 or 1.5 credit hour field course in the Department of Environment and Geography that will be offered over the Fall 2015 term. The intent is to provide students with an understanding of, hands-on experience with, and adaptive management opportunities for, a wide range of field-oriented topics related to the environment and its management. The course will draw upon the expertise of various environmental specialists from government agencies, the private sector, and non-government organizations.

B. Objectives:

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

1. Understand and participate in the design and delivery of field investigations for various environmental issues.
2. Assess and summarize perspectives about various environmental field investigations (6 or 3, depending on course in which student is enrolled) using an adaptive management approach.
3. Present a detailed description and adaptive strategies for an environmental field investigation of particular interest to you.

C. Course Content:

The course will consist of visits to a number of 'field' activities in which students will take an active role in examining and assessing various approaches and strategies being used to investigate environmental parameters and issues. The schedule for these field activities will be dependant upon the availability of personnel from cooperating agencies and interest from students, and additional details or cancellations of activities will be updated throughout the term. Students should therefore become familiar with the UM Learn website (<https://universityofmanitoba.desire2learn.com>) in order to determine the most up-to-date information on activities. A sign-up process is available, with a **minimum of 3 days notice of attendance** in advance of each activity to be provided to the Instructor, either through the UM Learn Discussions feature on the Communications tab, or by email to the Instructor. In addition, note that each activity in the course outline has a website to which students are directed for additional information and in some cases, for personal registration, especially if the activity is organized by a non-University agency. Students are encouraged to try to attend as many activities as possible that do not conflict with their other academic and personal commitments (note that attendance at any activity is optional, but that at least 6 activities must be attended for the 3 ch courses, 3 for the 1.5 ch course). In addition, students are encouraged to locate and/or plan and attend other field-related environmental activities, and email the Instructor with details, or post dates/times for them on the UM Learn site for other students to consider. Note that costs for activities will be reimbursed up to the amount of the course field trip fee by providing original receipts for payment to the course Instructor. Students requiring transportation to/from various activities that are held outside of the City of Winnipeg should provide details to the Instructor by email.

The course will emphasize hands-on experience with various environmental field investigations generally in a field workshop format, although some activities will be seminar or conference-based. As well, students will learn how to consider possible alternative management approaches by using an 'adaptive assessment process.' Discussion on the adaptive assessment process will take place in the first class, and also will be available as a video that is on Reserve and can be viewed in the Science and Technology Library in Machray Hall. In particular, students are encouraged to determine if (more effective) alternative strategies might be applied to the various field situations under study, and also to explain why the current approach is likely used. Students are expected to locate background literature and/or web-based sources of information for each field investigation that will be summarized in their report. Students will be evaluated through participation, reports, and an oral presentation.

Note that electronic submission of all reports and Powerpoints for the oral presentation should be done using the UM Learn site, and are due by December 11, 2015

The organizational meeting of the class will be held on Monday September 14 at 230 pm in 217 Wallace. If students are unable to attend, the Instructor should be contacted.

D. Evaluation

- | | |
|---|-----|
| • Participation | 10% |
| • Summary and adaptive assessment of activities (≥ 1 Nov 18/Dec 11) | 60% |
| • Oral Presentation on 1 activity (Dec. 10 or 11) | 30% |

E. 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.

The University of Manitoba has a new policy on electronic contact with students that requires **all email contact on university business to use students' official University email addresses**. The policy is at: http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html

Evaluative feedback will be provided upon request of the individual student before the voluntary withdrawal deadline date, for fall term is November 18.

F. Grading Scale

The grading scale to be used in this course is:

A+	90-100	C+	65-69
A	80-89	C	60-64
B+	75-79	D	50-59
B	70-74	F	0-49

G. Preliminary Fall 2015 Field Activities Schedule:

<u>Date</u>	<u>Theme</u>	<u>Location</u>	<u>Agency Rep</u>	<u>UM Rep</u>
Sep. 14 (M) (230-4pm)	Course Introduction	217 Wallace		Rick Baydack
Sep. 16 (W) (630-830pm)	Collecting Native Prairie Seeds	2795 Ness (Register by calling 204-832-0167)	Kirstin Tuscherer	
	http://www.winnipeg.ca/publicworks/naturalist/livingprairie/			
Sep. 17 (Th) (330-430pm)	Volunteering at TWS 22 nd Annual Conference	221 Wallace	Leslie Goodman Jonathan Wiens	Baydack
	http://www.twsconference.org/			
Sep. 17 (Th) (8-10pm)	Astronomy Night – Fall Constellations & Star Party	Oak Hammock	Natalie Bays	
	http://www.oakhammockmarsh.ca/experience/events/			
Sep. 18 (F) (330-5pm)	Thinking About the Future of Global Energy	330 Allen Building	Vaclav Smil	
	http://www.vaclavsmil.com/			
Sep. 19 (S) (10am-12pm)	Wetland Tour	Oak Hammock	Natalie Bays	
	http://www.oakhammockmarsh.ca/experience/events/			
Sep. 19 (S) (1-3pm)	Fall Yard Care	Fort Whyte Alive (Register by calling 204-989-8355)	Dana Rice	
	www.fortwhyte.org			
Sep. 20 (Su) (8-11am)	Songbird Banding	Oak Hammock	Natalie Bays	
	http://www.oakhammockmarsh.ca/experience/events/			
Sep. 25 (F) (130-430pm)	Peregrine Falcon Recovery Program in Manitoba	Parkland Mews 4394 Waverley	Rob Wheeldon	
	www.parklandmews.com			
Sep. 26 (S) (8am-4pm)	Birding at Shoal Lakes & St. Ambroise	Interlake Region (Register by calling 204-661-0763)	Rudolf Koes	
	www.naturemanitoba.ca			
Sep. 26 (S) (1-4pm)	Digital Photography	Oak Hammock	Ted Muir	
	http://www.oakhammockmarsh.ca/experience/events/			

Sep. 26 (S) Provincial Hunting Day Winnipeg Trap/Skeet Club Rob Olson
(10am-2pm)
<http://mwf.mb.ca/wp/>

Sep. 27 (Su) Small Farms Manitoba Depart 669 Broadway Kalynn Spain
(1030am-6pm) Interlake Farms Tour (Register at info@smallfarmsmanitoba.com)
<https://www.smallfarmsmanitoba.com/events/26/farm-tour-interlake>

Sep. 27 (Su) Waterfowl Identification Oak Hammock Natalie Bays
(1-2pm)
<http://www.oakhammockmarsh.ca/experience/events/>

Sep. 27 (Su) Tipi Raising Fort Whyte Alive Bill Crompton
(12-4pm) (Register by calling 204-989-8355)
www.fortwhyte.org

Sep. 30 (W) Corporate Social 100-379 Broadway Margo Shaw
(730-930pm) Responsibility
<https://www.meia.mb.ca/events.php>

Oct. 2 (F) Tall Grass Prairie TGP Reserve, Tolstoi Cary Hamel McCance
(130-530pm) Conservation
www.natureconservancy.ca/site/PageServer?pagename=mb_ncc_work_projects_tallgrass1

Oct. 7 (W) MB GIS Users Group Victoria Inn Jocelynn Johnson Dave Walker
(830am-430pm) 1808 Wellington
<http://www.mgug.ca/mgug-fall-conference-2014-october-1-2014>

Oct. 10 (S) Water Day: Dipnetting and Fort Whyte Alive Jody Watson
(1-3pm) Water Testing
www.fortwhyte.org

Oct. 15 (Th) Bird Migration Using Stars Oak Hammock Natalie Bays
(7-10pm)
<http://www.oakhammockmarsh.ca/experience/events/>

Oct. 16 (F) Seine River Corridor Seine River Dennis Gautron McCance
(130-530pm) Management (SE corner Extra Foods Parking Lot, 740 St. Anne's Rd)
<http://www.saveourseine.com/>

Oct. 17-21(SW) 22nd Annual Conference RBC Convention Centre Various Baydack
(8am-8pm) of The Wildlife Society
<http://www.twsconference.org/> (Note: 1-day registration is available at no cost by emailing Instructor)

Oct. 18 (Su)	Ancient Art of Woodturning	Fort Whyte Alive	Jody Watson	
(11am-3pm)		(Register by calling 204-989-8355)		
	www.fortwhyte.org			
Oct. 21 (W)	Construction, Demolition, Waste Reduction Workshop	BW Airport Hotel 1715 Wellington	Jim Ferguson Robert Kenney	
(8am-2pm)				
	https://www.meia.mb.ca/events.php			
Oct. 23 (Th)	Community Economies Conference	Garden City Collegiate	Sarah Lesson-Klym	
(830am-5pm)				
	https://ccednet-rcdec.ca/en/event/2015/10/23/gathering-manitobas-2015-cdced-conference			
Oct. 23 (F)	Mentored Waterfowl Field Hunt	South of Winnipeg	Rob Olson Carly Deacon	Baydack Walker
(9am-9pm)				
	http://www.gov.mb.ca/conservation/wildlife/hunting/licence/mentored.html			
Oct. 26 (M)	Parasitoids and their hosts	340 Provencher	Miles Zhang	
(730-9pm)				
	http://www.naturemanitoba.ca			
Nov. 1 (Su)	Canadian Firearms Safety Course	243 Wallace	Dennis Wiebe	Baydack
(9am-4pm)				
	http://www.rcmp-grc.gc.ca/cfp-pcaf/safe_sur/cour-eng.htm			
Nov. 1 (Su)	Wilderness Survival Workshop	Fort Whyte Alive	Maple Leaf Survival	
(930am-5pm)		(Register by calling 204-989-8355)		
	http://www.fortwhyte.org			
Nov. 3 (T)	Lab Necropsy of Large Mammal (White-tailed Deer)	TRAMPP Farms St. Adolphe	Vince Crichton Paul and Michelle Campeau	Baydack
(1-4pm)				
	http://www.gov.mb.ca/conservation/wildlife/			
Nov. 6 (F)	Lake Winnipeg Research and Manitoba Conservation Districts	218 Wallace	Karen Scott Sharla Boychuk	McCance
(130-430pm)				
	http://www.lakewinnipegresearch.org/			
	http://www.gov.mb.ca/conservation/waterstewardship/agencies/cd/index.html?print			
Nov. 7 (S)	Birds of Lake Winnipeg Beaches	Lake Winnipeg	Gerry Budyk	
(9am-6pm)		(Register by calling 204-667-1062)		
	http://www.naturemanitoba.ca			
Nov. 7 (S)	Soapstone Carving Workshop	Fort Whyte Alive	Dave Zachary	
(12-3pm)		(Register by calling 204-989-8355)		
	http://www.fortwhyte.org			

Nov. 7-8 (SSu)	Mentored Deer Hunt (S6am-Su12pm)	Minnedosa Area (Space limited, to register email brian.kiss@gov.mb.ca)	Brian Kiss	
http://www.gov.mb.ca/conservation/wildlife/hunting/				
Nov. 8 (Su)	Birding Through Your (1-5pm) Kitchen Window	Oak Hammock	Natalie Bays	
http://www.oakhammockmarsh.ca/experience/events/				
Nov. 13 (F)	Urban Wildlife Management (130-430pm)	218 Wallace	Alyssa Schwan	McCance
http://www.manitoba.ca/conservation/wildlife/problem_wildlife/pdf/wtddeer_en.pdf				
Nov. 14 (S)	Making Salves and (10am-12pm) Lipbalsms	Fort Whyte Alive (Register by calling 204-989-8355)	Sara McIvor-Prouty	
http://www.fortwhyte.org				
Nov. 16 (M)	Diet and Ecology of the (730-9pm) Canada Lynx	340 Provencher	Christa Szumski	
http://www.naturemanitoba.ca				
Nov. 19 (Th)	MEIA Emerging Issues (8am-6pm) Conference – Sustainable Economy	Fort Garry Hotel 222 Broadway	Margo Shaw	
http://meia.mb.ca/events.php				
Nov. 19 (Th)	Astrophotography (7-10pm)	Oak Hammock	Natalie Bays	
http://www.oakhammockmarsh.ca/experience/events/				
Nov. 19 (Th)	Astropub II – Leonid (7-10pm) Meteor Shower	Fort Whyte Alive (Register by calling 204-989-8355)	Darren Townsley	
http://www.fortwhyte.org				
Nov. 21 (S)	Making Beeswax Candles (10am-12pm) Workshop	Fort Whyte Alive (Register by calling 204-989-8355)	Jody Watson	
http://www.fortwhyte.org				
Nov. 20 (F)	Manitoba's Protected Areas (130-430pm) Initiative	218 Wallace	Rhonda McDougal Elvira Roberge	McCance
http://www.gov.mb.ca/conservation/pai/				
Nov. 27 (F)	Management of Wetlands (130-430pm) and Aquatic Ecosystems	218 Wallace	Pascal Badiou Tracy Maconachie	McCance
http://www.ducks.ca/learn-about-wetlands/ http://www.gov.mb.ca/agriculture/programs/aaa27s00.html				

Nov. 29 (Su) Introduction to Winter Fort Whyte Alive Maple Leaf Survival
(12-2pm) Camping (Register by calling 204-989-8355)
www.fortwhyte.org

Dec. 7 (M) Engaging the Public in our 340 Provencher Michaela Kent
(730-9pm) Protected Areas
<http://www.naturemanitoba.ca>