

Course Schedule – FALL 2016

GLOBAL to LOCAL SUSTAINABILITY

BIO 647 (73524) and NRM 647 (74910)

Course Information Location: AHRB 183 Meeting Time: Tu/Th, 2:00-3:30

Instructor

- Sarah Trainor, 370 O'Neill Building; sarah.trainor@alaska.edu, office: 907.474.7878.
Office Hours by appointment

You are responsible for reading all of the readings prior to class meeting.

Even when you are not leading the discussion.

This schedule is subject to change. Updates will be posted on Blackboard.

See syllabus and Blackboard for more details on grading and course assignments.

Required Texts:

Lovecraft, A.L, and Eicken H. Eds. 2011. *North by 2020*. University of Alaska Press

Pielke, Roger A. Jr. 2007. *The Honest Broker*. Cambridge University Press

Additional readings posted on Blackboard

Recommended Texts:

Gordon, Raymond L. 1997. *Basic Interviewing Skills*. Waveland Press

Bhattacharjee, A. 2012. *Social Science Research: Principles, Methods, and Practices*

Parris, A. et al. 2016. *Climate in Context*. Wiley & Sons

2016

<i>Wk</i>	<i>Day</i>	<i>Date</i>	<i>Topic</i>	<i>Required Reading</i>	<i>Format/ Student Lead</i>	<i>Assignment</i>
1	Tu	8/30	Course Goals and Expectations What is Sustainability Science?	Clark et al 2007 Kates et al. 2011 Chapin 2009	SFT – Lecture/ Discussion	
1	Th	9/01	Challenges of Sustainability in the Arctic - Socio-Ecologic Systems, Climate Change, Adaptation, Etc.	North by 2020 Section 1 – pgs 1-52	SFT – Lecture/ Discussion	
2	Tu	9/06	Alaska EPSCoR Stakeholder Engagement Course Project Introduction and Overview	Alaska EPSCoR Website & 2015 Report Additional Readings on Blackboard TBA: Northern Test Case, South Central Test Case, South East Test Case	Guest Lecture: Dr. Anumpa Prakash, Lead Alaska EPSCoR	
2	Th	9/08	What is knowledge co-production? Why is it desirable? How can it be accomplished? Who are relevant stakeholders?	Clark and Holliday 2006 Dilling and Lemos 2011 Vogel, McNie & Behar 2016	STUDENT LEAD 1. 2.	1 pg summary/ reflection based on readings
3	Tu	9/13	Course Project – IRB Protocols, informed consent Developing Research & Interview Questions Staying organized	Maxwell Chs. 4 & 5 Gordon Chs. 2 & 3	SFT – Lead Discussion	Create account on IRB.net Add your name to project personnel list
3	Th	9/15	What evidence do we have that knowledge co-production is needed in Alaska and the Arctic? How can this be accomplished?	Arctic Observing Summit Conference Statement 2016 Chapin et al 2016 Cochran et al 2013 Knapp and Trainor 2013	STUDENT LEAD 1. 2.	1 pg summary/ reflection based on readings IRB Certification Complete

4	Tu	9/20	Course Project – Discussion of Draft Research & Interview Questions	No Readings ***Suggested to read sections of interest in North by 2020***	SFT – Lead Discussion	Draft Research & Interview Questions Due
4	Th	9/22	What are some examples of boundary organizations in Alaska?	Outreach chapter NPLCC monograph	No Class – Independent work	
5	Tu	9/27	What are key characteristics of successful boundary spanners?	Meadow et al 2015 Brugger et al 2014	STUDENT LEAD 1. 2.	1 pg summary/ reflection based on readings
5	Th	9/29	Course Project - Conducting Research: Contacting research participants, Interviewing, Mock Interviews, Interview Assignments	Gordon Chs. 4 – 10, Summaries & Exercises	NEED student volunteers for Technical assistance with video-taping and replay SFT – Lead Discussion	Once interview assignments have been made, begin contacting research participants to set up interviews. Input contact and interview status into google spreadsheet. Be sure to continue updating status on an on-going basis.
6	Tu	10/04	Indicators of Sustainability, Adaptation, Ecosystem Services	Hinkel 2011 Dunford et al 2015 Ozkan and Schott 2013	STUDENT LEAD 1. 2.	Conduct Interviews – **Now through 11/3**
6	Th	10/06	Course Project – Check in Multiple Stressors/ Exposures	Parlee and Furgal 2012 Bennett et al 2016	STUDENT LEAD 1. 2.	

7	Tu	10/11	Course Project - Coding	Ch. 13 – Qualitative Analysis, pp. 122-126	STUDENT LEAD 1. 2.	
7	Th	10/13	Cross-Scale Interactions:	Wilbanks 2007 Pahl-Wostl 2009 Gordon et al 2016. Climate In Context Ch 11	STUDENT LEAD 1. 2.	1 pg summary/ reflection based on readings
8	Tu	10/18	Course Project - Discussion of interviews and coding structure	No Readings ***Suggested to read sections of interest in North by 2020***	SFT – Lead Discussion	Draft coding structure
8	Th	10/20	Adaptation	Adaptation Actions for a Changing Arctic – Bering, Beaufort, Chukchi Region. Arctic Council Report. In Progress.	STUDENT LEAD 1. 2.	
9	Tu	10/25	Course Project – Check-in re coding and interview findings Bridging Science & Policy I	Honest Broker Chs 1-4 (pp. 1-53)	STUDENT LEAD 1. 2.	
9	Th	10/27	Bridging Science & Policy II	Honest Broker Chs 5-7 (pp. 54-116)	STUDENT LEAD 1. 2.	
10	Tu	11/01	Bridging Science & Policy III	Honest Broker Chs 8 & 9 (pp. 116-163))	STUDENT LEAD 1. 2.	1 pg summary/ reflection based on readings
10	Th	11/03	Course Project – Check in Transcribing and Coding,	No Readings ***Suggested to read sections of interest in North by 2020***		Interviews Complete Suggestions for additions to

						coding structure, if any
11	Tu	11/08	Evaluating and Assessing Sustainability I: Why is evaluation necessary? How do you do it? What do you do with the results?	Patton, McKegg and Wehipeihana, Preface, Chs 1 & 2 (pp. v-x, 1-44)	STUDENT LEAD 1. 2.	
11	Th	11/10	Evaluating and Assessing Sustainability II	Patton, McKegg and Wehipeihana, Ch 9 Ferguson et al 2016. Climate In Context Ch 10	STUDENT LEAD 1. 2.	
12	Tu	11/15	Course Project – Check in and discussion. What are your insights and reflections on the interview results? How do your results fit or don't fit with course readings? Did you find any surprises?	No Readings ***Suggested to read sections of interest in North by 2020***	Possible video recording of session SFT – Lead Discussion	Interview Transcriptions Complete Come prepared you're your reflections and insights on Interview results
12	Th	11/17	Indigenous Knowledge, Climate Change and Sustainability	North by 2020 Sections: 2.1 , 2.2, 2.3, 2.6, 2.8 (pp. 55-78, 111 – 133, 151-162) Optional: 2.4, 2.5	Guest Lecture: Dr. Michael Koskey, Center for Cross-Cultural Studies	
13	Tu	11/22	Alaska's Freshwater Resources	North by 202 Sections 3.1 – 3.5 (pp. 169-213)	STUDENT LEAD 1. 2.	
13	Th	11/24	Thanksgiving	NO CLASS		

14	Tu	11/29	Course Project Discussion: Do you have any new insights on your findings in relation to the course readings? Did you find any new surprises?	No Readings ***Suggested to read sections of interest in North by 2020***	Possible video recording of session SFT – Lead Discussion	Interview Coding Complete Come prepared you're your reflections and insights on Interview results
14	Th	12/01	Coastal and Offshore Oil and Gas Development I	North by 202 Sections 7.1, 7.2, 7.3, (pp. 493-536)	STUDENT LEAD 1. 2.	
15	Tu	12/06	Coastal and Offshore Oil and Gas Development II	North by 202 Sections 7.5, 7.6 (pp. 755 – 614)	STUDENT LEAD 1. 2.	
15	Th	12/08	Course Project Findings Discussion: Do you have any new insights on your findings in relation to the course readings? Did you find any new surprises?	No Readings	SFT – Lead Discussion	Come prepared with your reflections and insights on interview results
16	Tu	12/13	Final Paper Presentations/ Discussion			FINAL PAPER DUE
16	Th	12/17	Final Paper Presentations/ Discussion			