CCS/NRM 656

Sustainable Livelihoods and Community Wellbeing Center for Cross-Cultural Studies Indigenous Studies Graduate Programs Fall 2020

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Course Goals & Learning Objectives

- 1. To understand the frameworks and design solutions as applied to contemporary social and ecological problems that urban and rural communities must confront if they are to be sustainable.
- 2. To explore the multiple ways that communities are responding effectively or ineffectively to global, regional and local change; the framework is cross-cultural and compa

<u>Reading Discussions</u>: Each student will lead three group discussions based on the readings. The reading presentations will include a 2-4 page summary sheet e-mailed to all the students and instructor, and a summary presentation in class (5-10 minutes) followed by a class discussion (5-10 minutes). *Note that one of the three reading discussions will include an article located and distributed by the student.*

<u>Problem Sets</u>: Problem sets are very specific, are defined by the instructor, and are typically no more than 3-5 pages in length for your

Class & Reading Schedule

The following is the listing of readings for the class for the listed date, along with general class topics. These texts need to be read *before* the scheduled class, since they will constitute an important focus of inclass discussion. Most classes will include the presentation of information by the instructor, preceded or followed by discussions of the readings. Guest speakers will be inserted into the schedule according to their preferences and the current placement of guests in the schedule below *will almost certainly change*. This will require both the instructor and students to be flexible concerning scheduling. *Please remember, class attendance is required, and repeated absences will result in a lower final grade*.

August 26th

Week 1

- 1. INTRODUCTIONS
- 2. BASICS OF CULTURAL, SUSTAINABILITY, & WELLBEING STUDIES

September 2nd

Week 2

- 1. INTRODUCTION TO CULTURAL & CROSS-CULTURAL RESEARCH
- 2. BACKGROUND, LIVELIHOOD, AND PLACE-BASED DESIGN
 - Kates

September 23th

Week 5

- 1. OUR COMMUNITIES AND THE ENVIRONMENT
- 2. CLIMATE CHANGE AND GLOBAL ENVIRONMENTAL CHANGE
 - De Fries, R., Asner, G., and J. Foley. (2006). A glimpse out the window: What landscapes reveal about livelihoods, land-use, and environmental consequences. *Environment* 48(8): 22-36.—

 available
 - Lynch, A., & Brunner, R. (2007). Context and climate change: an integrated assessment for Barrow, Alaska. *Climatic Change*, 82, 93-111.—*available*
 - Marino, E. (2009). Immanent Threats, Impossible Moves, and Unlikely Prestige: Understanding the Struggle for Local Control as a Means towards Sustainability. In A. Oliver-Smith & X. Shen (Eds.), Linking Environmental Change, Migration & Social Vulnerability (pp. 42-50). Bonn, Germany: UNU Institute for Environment and Human Security.—available
 - Student-led Article Discussion—available

September 30th

Week 6

- 1. OUR COMMUNITIES AND SOCIOECONOMIC CHANGE
- 2. INFRASTRUCTURE, EMPLOYMENT, DEMOGRAPHICS, EDUCATION
 - Huskey, L., Berman, M., & Hill, A. (2004). Leaving home, returning home: Migration as a labor market choice for Alaska Natives. *Annals of Regional Science*, 38 (1), 75-92.—*available*
 - Meadow, A., Meek, C., & McNeeley, S. (2009). Towards Integrative Planning for Climate Change Impacts on Rural-Urban Migration in Interior Alaska: A Role for Anthropological and Interdisciplinary Perspectives. *Alaska Journal of Anthropology*, 7 (1), 57-69.—*available*
 - Barnhardt, R., & Kawagley, A. O. (2004). Culture, Chaos and Complexity: Catalysts for Change in Indigenous Education. Cultural Survival Quarterly, 27 (4), 59-64.—available
 - Student-led Article Discussion—available

Problem Set 1 due

October 7th

Week 7

- 1. SUSTAINABILITY AND DEVELOPMENT
- 2. HEALTH, RISK, AND ENVIRONMENTAL JUSTICE
 - Krieger, N. (2005). Embodiment: a conceptual glossary for epidemiology. Journal of Epidemiology and Community Health, 59 (5), 350-355.—available
 - Checker, M. (2007). "But I Know it's True:" Environmental Risk Assessment, Justice, and Anthropology. *Human Organization*, 66 (2), 112-124.—*available*
 - Wernham, A. (2007). Iñupiat Health and Proposed Oil Development: Results of the First Integrated Health Impact Assessment/Environmental Impact Statement for Proposed Oil Development on Alaska's North Slope. *EcoHealth*, 4 (4), 500-513.—available
 - Student-led Article Discussion—available

October 14th

Week 8

FOOD SYSTEMS, FOOD PRODUCTION, SUBSISTENCE, FOOD SECURITY, NUTRITION AND HEALTH

- Webb, P. (2010). Medium to long-run implications of high food prices for global nutrition. Journal of Nutrition 140 (1): 143S-147S.—available
- Sundkvist, A., Milestad, R., & Jansson, A. (2005). On the importance of tightening feedback loops for sustainable development of food systems. *Food Policy*, 30, 224-239.—*available*
- Kloppenburg, Hendrickson, J., & Stevenson, G. (1996). Coming into the Foodshed. *Agriculture and Human Values*, 13 (3), 33-42.—*available*
- Loring, P. and Gerlach, S. (2009). Food, Culture, and Human Health in Alaska: An Integrative Approach. *Environmental Science and Policy* 12 (4): 466-478.—*available*
- Fieldhouse, P., and Thompson, S. 2012. Tackling food security issues in indigenous communities in Canada: The Manitoba experience. *Nutrition & Dietetics* 69: 217–221.—available

Problem Set 2 due

October 21st

Week 9

- 1. COMMUNITIES AND THE ECOSYSTEM
- 2. HYDROLOGICAL CHANGE, WATER AVAILABILITY, SAFETY, AND HEALTH
 - Gleick, P. (2003). Water Use. Annual Review of Environment and Resources. 28 (1): 275-314.— available
 - Postel, S. (2005). From the headwaters to the sea: The critical need to protect freshwater ecosystems. *Environment* 47 (10): 8-21.—*available*
 - White

November 4th

Week 11

- 1. ENERGY CONSERVATION AND USE
- 2. CONVENTIONAL AND ALTERNATIVE ENERGY SYSTEMS IN DESIGN AND PRACTICE
 - Pickett, Cadenasso, et al., (2001). Urban Ecological Systems: Linking Terrestrial Ecological, Physical, and Socioeconomic Components of Metropolitan Areas. Annual Review of Ecological Systems 32:12 7-157.—available
 - Douglass, M. (1998). A Regional Network Strategy for Reciprocal Rural-Urban Linkages. *Third World Planning Review*, 20 (1), 1-33.—*available*
 - Lehrer, J. (2007). The Living City. Seed. July.—available
 - Student-led Article Discussion—available

Semester Paper updates due

November 11th

Week 12

- 1. MODELS OF SOCIAL AND ECOLOGICAL SYSTEMS ANALYSIS
 2. UNDERSTANDING AND APPLICATION IN ECOLOGICAL, ECONOMIC, AND SOCIAL SUSTAINABILITY
 - Lovelock, J. (1986). Gaia: The world as a Living Organism. New Scientist 112 (1539): 25-31.
 - Walker, B., Holling, C., Carpenter, S., & Kinzig, A. (2004). Resilience, Adaptability and Transformability in Social-ecological Systems. *Ecology and Society*, 9 (2).—*available*
 - Dublin, D.R, & Tanaka, N. (2014). Indigenous Agricultural Development for Sustainability and "Satoyama." *Geography, Environment, Sustainability*, 7(2), pp.86-95.—*available*
 - Johnson, J., Howitt, R., Cajete, G., Berkes, F., Louis, R.P., & Klisky, A. (2015). Weaving Indigenous and sustainability sciences to diversify our methods. *Sustainability Science* 11: 1-1.— *available*

November 18nd

Week 13

- 1. INTRODUCTION TO COMMUNITY-BASED PARTICIPATORY RESEARCH (CBPR)
 2. LOCAL KNOWLEDGE, MODELS AND METHODS USED IN CUMULATIVE EFFECTS
 ANALYSIS, INTEGRATED ASSESSMENT, AND SUSTAINABLE COMMUNITY DESIGN
 - Cash, D. W., Borek, J. C., & Patt, A. G. (2006). Countering the Loading Dock Approach to Linking Science and Decision Making. Science, Technology & Human Values, 31 (4), 465-494.—available
 - Community Health Status Assessment Report. (2009; 2014). Homer, AK: Southern Kenai Peninsula Communities Project.—available
 - Carucci, L., & Poyer, L. (2017). The West Central Pacific. *In Strathern, A. et al. Oceania: An introduction to the cultures and identities of Pacific Islanders* (2nd ed.)—available

Semester Papers due

$\frac{November\ 25^{th}}{Week\ 14}$

Thanksgiving Break; no classes.

December 7th Week 15

First Student Presentations

1. available 2. available 3. available 4. available

December