The Evergreen State College

Sustainable Decision Making

MPA, Spring 2016

Syllabus

Last Update: Mar 10, 2016

Instructor: Rhys Roth

Weekdays: 360-867-6906; or 360-480-6749

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Office Hours: By appt

Dates:

Friday, April 8 (5-9) Saturday, April 9 (9-5:30) Sunday, April 10 (8-3:30)

Location: SEM 2 E3109

Course Description:

Many organizations are in need of new talent, thinking, and tools that enable decision-making leading to more sustainable outcomes. This 2 credit intensive course will explore sustainable decision-making, in particular as it applies to the context of public works and infrastructure spending and investment. Infrastructure represents the vital circulatory systems of society; decision-making on infrastructure investment has major implications for long-term quality of life, economic vitality, social equity, climate change, public health, and more. We will study leading edge thinking and key challenges, and develop practical, hands-on experience with decision tools designed to yield more sustainable, affordable outcomes with multiple community-wide benefits. Team projects will focus on real-world decisions by municipal, tribal, and state agencies.

Assigned readings for this course will be posted by February 24th.

Learning Objectives:

This course will focus on four learning objectives:

- 1. Understanding modern concepts and tools for applying sustainability concepts and advancing sustainability goals in a professional context
- 2. Building working knowledge of leading edge concepts and current sustainability and financial challenges in public infrastructure systems
- 3. Developing capacity to envision whole-system, integrated solutions and analyses
- 4. Gaining exposure to contemporary challenges of public infrastructure managers in the local, tribal, and state government contexts

Instructor

Rhys co-founded and helped lead for over 15 years the non-profit group <u>Climate Solutions</u>. He pioneered several of its innovative programs and partnerships which were instrumental in positioning clean energy at the top of the Northwest's economic development agenda. These included "Harvesting Clean Energy" which worked with the agriculture and rural development communities, and "Poised for Profit in Clean Energy" working with the technology and investor communities. In 2013 he was honored as a "Sustainability Trailblazer" by the Sustainable Path Foundation.

Late in 2013, he returned to his alma mater, The Evergreen State College, over 20 years after graduating with a Masters of Environmental Studies, to lead the College's new Center for Sustainable Infrastructure to help bring innovation, new tools, and sustainability excellence to infrastructure planning and investment in the Pacific Northwest. The Center envisions a future for the Pacific Northwest of smart, affordable, sustainable and resilient infrastructure systems, providing vital services accessible to all, which support healthy, prosperous, and beautiful communities. He authored the Center's inaugural report, "Infrastructure Crisis, Sustainable Solutions" in November 2014, and "Rewiring the Northwest's Energy System" in February 2016.

Required Readings

In advance of the first class, students will complete the following readings and submit a 600-1000 word reflective essay describing how the readings changed, challenged, enhanced, and/or reinforced their understanding of sustainable decision-making:

REPORTS:

- 1. <u>Infrastructure Crisis, Sustainable Solutions</u>: Rethinking Our Infrastructure Investment Strategies, Rhys Roth, Center for Sustainable Infrastructure, The Evergreen State College, November 2014 (hard copy available)
- 2. <u>Rewiring the Northwest's Energy System</u>: An Integrated Vision and New Investment Strategy, Rhys Roth, Center for Sustainable Infrastructure, The Evergreen State College, February 2016 (hard copy available)
- 3. <u>Strengthening the Pine Ridge Economy: A Regional Equity and Opportunity Assessment</u>, David Norris, Christy Rogers, Matt Martin, and Jason Reece; The Kirwan Institute for the Study of Race and Ethnicity at The Ohio State University, Kirwan Institute Research Report, February 2015.
- 4. <u>Green City, Clean Waters: The City of Philadelphia's Program for Combined Sewer Overflow Control</u>, Program Summary, Philadelphia Water Department, June 1, 2011.

BRIEF ARTICLES:

- 5. <u>Applying Elements of Resilience to Prioritization and Decision-Making,</u> S. Moddemeyer, CollinsWoerman, Seattle, October 20, 2015
- 6. Resilience-based Puget Sound Recovery, by Steve Moddemeyer, 2015 see Select Articles at http://www.moddemeyer.com/
- 7. What are the social justice implications of urban ecology...?, The Nature of Cities, multiple authors, February 3, 2014

- 8. <u>Social Equity: The Forgotten Leg of Sustainability</u>, Jessica Chapman, Sustainable City Network, May 12, 2014
- 9. <u>Finding Balance in Everything: Diary of a Public Works Director</u>, APWA Reporter, Michael Mucha, May 2009, pages 32-36

WEBSITES, SLIDE DECKS, and VIDEOS:

- 10. Orion Magazine's "Reimaginging Infrastructure" site. Please study these three features: "The Future of Infrastructure"; "The City and the Sea"; and "The Art of Infrastructure."
- 11. Institute for Sustainable Infrastructure's EnvisionTM Guidance Manual, pages 1-15 (may require you to set up a free account)
- 12. Vien Truong, Environmental Equity Director at the Greenlining Institute, "California Climate Leadership, Video: https://www.youtube.com/watch?v=_L5-jRE5yGw
- 13. Green Stormwater Infrastructure Creates Jobs and Opportunity, Green for All, Video: https://www.youtube.com/watch?v=bHeVgRzOGis

Credit Requirements

For credit in this class, students are required to:

- 1. Complete all the assigned readings in advance and submit by 5pm on the first day of class a 600-1000 word reflective essay describing how the readings changed, challenged, enhanced, and/or reinforced your understanding of sustainable decision-making.
- 2. Attend all three days of class and actively participate in all activities and discussions.
- 3. Participate actively in creation of a collaborative small team 'homework' assignment. Details on the assignment goals and requirements will be discussed in detail during class.
- 4. Submit within two weeks of the last day of class a 800-1200 word final essay focus to be discussed in detail during class.
- 5. Consistent with MPA program requirements, students will prepare a self-evaluation and an evaluation of the instructor. The student evaluation shall emphasize the one major take-way from the course and how it will influence thinking. Please do not summarize the course material. This will play a major part in your success at receiving credit for this class. The Instructor evaluation should focus on what Rhys should do more of, less of and continue doing.
- 6. All late submittals that are not previously arranged will be noted in student's course evaluation.