Water & Sanitation Planning and Policy in Developing Countries: Course Syllabus

Part I – Introduction (without Manchester class)

Lecture 1 (Jan. 1) – Economic Analysis of Water Supply Projects; Global benefits and Costs of Water and Sanitation Interventions

Video - Kabuku Water Project Kenya: Sustainability- Productive Uses of Water

Readings


Background Readings


Note: Understanding the link between water and sanitation interventions and health improvements is essential for the economic evaluation of water and sanitation projects. However, this subject is not discussed in detail in this course because it is covered elsewhere in the ENVR curriculum. Students are encouraged to do the following background readings if they are not familiar with the causal relationships between improved water and sanitation infrastructure and health outcomes:

**Linking improved water and sanitation conditions to health outcomes – Selected Readings**


Lecture 2 (Jan. 16) – Economic Analysis of Water and Sanitation Projects (cont.)

Student Presentation of Paper:

Lecture 3 (Jan. 23) – Conducting a Systematic Literature Review (Kristen Downs); Guest Lecture (David Fuente)

Readings:


Part II – Status Quo Water and Sanitation Conditions (What’s going on?)

Lecture 4 (January 30) – Policy Framework; Ancient Instincts

Broadcast from Manchester to UNC-CH – Meet in Mayes Center at 9:30 am

Readings

Isbell, L.

Lecture 5 (Feb. 6) – Flipped Class: Problem Diagnosis: Infrastructure Coverage; Facts about water & sanitation; Water Markets and Water Vending

Broadcast from the University of Manchester beginning at 9:00 am. Meet in Mayes Center.

Before class students should watch …

1) MOOC videos for Week 1, half of the MOOC videos for week 2 (on water markets and water vending)
2) Hans Rosling: 2006 TED Conference in Monterey & A Slum Insight; and
3) Water and Sanitation for the Poor: Independent Providers (18 min.)

Email questions on MOOC and other videos to Kristen Downs by Wednesday, Feb. 4.

Class organization:

9:00 – 10:20 am – Discussion of student questions of MOOC lectures and videos

10:20 – 10:30 am – Break
10:30 – 11:45 am – Teaching Case No. 1: “USAID Mission to Haiti.” Students should study the case before February 6 and come to class prepared to discuss.

Readings

Infrastructure Coverage:


Water Markets and Water Vending:


Background readings:


Lecture 6 (Feb. 13) – Flipped Class: Corruption; The Supply Side – Technologies and Costs of Improved Water Supply and Sanitation Services

Broadcast to the University of Manchester beginning at 9:00 am. Meet in Mayes Center.

Before class: students should watch …

1) MOOC videos for Week 2 on corruption;
2) MOOC videos for Week 3 on Costs and Technologies

Class organization:
9:00 – 10:20 am – Discussion of student questions on MOOC lectures and videos
10:20 – 10:30 am – Break
10:30 – 11:45 am – xxxx

Readings

Corruption


Costs and Technologies


**Background Readings**


**Lecture 7 (Feb. 20) – Understanding Household Water and Sanitation Demand**

**Before class** students should watch …

1. MOOC videos for Week 4 on household demand
2. Video – Water of Ayole
3. Video - Orangi: City of Hope

**Class organization:**

9:00 – 10:20 am – Discussion of student questions on MOOC lectures and videos
10:20 – 10:30 am – Break
10:30 – 11:45 am – Student Presentation of papers


**Readings:**

*Water*


**Sanitation**


**Background Readings**


Lecture 8 (Feb. 28) – Flipped Lecture: Virtual Water; Water and Climate Change

Lecture Broadcast to the University of Manchester beginning at 9:00 am from Mayes Conference Center.

Before class, students should watch …

1) MOOC videos for Week 6 on climate change
2) Video: Sun Come Up
3) Video: Cool It
4) Background Video of Prof. Tony Allan, Kings College London: “Water and food security: some underlying fundamentals and some invisible solutions” [Feb. 4, 2010] – available for students to watch outside of class.

Class organization:
9:00 – 10:20 am – Discussion of student questions on MOOC lectures and videos
10:20 – 10:30 am – Break
10:30 – 11:45 am – Student Presentation of papers

Readings

Virtual Water

**Climate Change**


**Assignment No. 1: Performance Indicators due**

**Note: end of flipped lectures**

**Part III – Policy Interventions (What works? What should be done?)**

**Lecture 9 (March 6) – Better Planning Protocols; Participation, Demand-driven Approaches**

**Lecture Broadcast to the University of Manchester beginning at 9:00 am from Mayes Conference Center.**

**Before class, watch …**
1) Video - Strategic Sanitation Planning: The Kumasi Experience

**Class Organization**

9:00 – 10:20 am – Lecture  
10:20 – 10:30 am – Break  
10:30 – 11:45 am – Lecture (cont.)

**Readings**

**Participation**


**Designing Demand-Driven Rural Water Programs**


**Background readings**


**Designing Demand-Driven Urban Sanitation Programs**


**Background Readings**


**SPRING BREAK – NO CLASS Friday, MARCH 13, 2015**

Lecture 10 (March 20) – Pricing, Tariff Design, and Subsidies
Broadcast to the University of Manchester from Mayes Center at 9:00 am

Class organization

9:00 – 10:20 am – Lecture
10:20 – 10:30 am – Break
10:30 – 11:45 am – Lecture (cont.)

Readings

Water tariff design


Subsidies


Background readings


Lecture 11 (March 27) – Providing Information – Community-Led Sanitation; Health Information

No broadcast to the University of Manchester: meet in McGG 1305

Before class, students should watch …

Videos - UNICEF – Dividing the Mango; Meena’s Three Wishes; I’m Meena

Class organization

9:00 – 10:40 am – Lecture
10:40 – 10:50 am – Break
10:50 – 11:45 am – Class Debate

Class debate:

Readings

Community-Led Total Sanitation


Information treatments

Jeuland
Ferraro

Background Readings


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**Friday, April 3 – NO CLASS (Good Friday)**

**Lecture 12 (April 10 ) – Designing Rural Water Supply Programs**

**No broadcast to the University of Manchester: meet in McGG 1305**

**Class organization**

- 9:00 – 10:40 am – Lecture
- 10:40 – 10:50 am – Break
- 10:50 – 11:45 am – Class Debate

**Readings**
Lecture 13 (April 10) – Changing Institutions: the privatization story; UK experience

Broadcast to the University of Manchester: meet in Mayes Center at 9:00 am

Before class, students should watch …

1) Video (9:00 am in Rosenau 235) – The World Bank – Public Water, Private Partners (27 min)
2) Manila water video

Class organization
9:00 – 10:00 am – Lecture (Dale)
10:00 – 10:50 am – Lecture (Duncan)
10:50 – 11:00 am – Break
11:00 – 11:45 am – Teaching Case No. 2

Teaching Case 2: “Regulating Privatized Water Utilities in Manila.” Students should study the case before April 10 and come to class prepared to discuss the case.

Readings


Background Readings


Lecture 12 (April 4) - The UK Privatization and Regulation Story

Broadcast to and from the University of Manchester starting at 9:00 am

Before class, students should watch …

1) Phnom Penh water video
Class organization
9:00 – 10:00 am – Lecture (Dale)
10:00 – 10:50 am – Lecture (Duncan)
10:50 – 11:00 am – Break
11:00 – 11:45 am – Teaching Case No. 3

Teaching Case 3: “Ek Son Chan and the Transformation of the Phnom Penh Water Supply Utility.” Students should study the case before April 24 and come to class prepared to discuss the case. Kristen will facilitate case discussion.

Readings


Background Readings


**Assignment No. 2 due– Friday, April 25**

**Exam:** Monday, May 4, 8:00 - 11:00 am


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Class debate No. 3 – Proposition: “The United Nations Declaration establishing a human right to water and sanitation is a big step forward and will result in many more poor households receiving improved WASH services in the future.”

Readings:


Class debate No. 2 – Proposition: “The health risks from poor water and sanitation are a relatively small, unimportant part of ‘portfolio’ of risks confronting poor households in low-income countries.”


**Assignment No. 2 distributed (Due Friday, April 25)**