GEOG 713 Rural Water Supply, Sanitation and Hygiene Education in the Developing Countries
Spring 2013
Monday and Thursday 14:45 to 16:00
HN 1022

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No textbook. See the reading list. All of these papers will be one-reserves.

Goals/ objectives and expected student outcome:

The main goal and objective of this class is to study and understand aspects of rural water supply, sanitation and hygiene education in the developing countries. The course will discuss the relationship between water, sanitation and hygiene education besides history, policies, management, gender, consumption, challenges and sustainability of rural water supply. It will also discuss the different types of sanitation facilities that are used by the rural people of the developing nations.

By the end of this course, you should have a better understanding of the complex and dynamic interrelations between and within water and sanitation systems in the developing countries with much emphasis on policies, sources, consumption, challenges, and sustainability of rural water supply on the one hand and the types of sanitation services and their problems in the rural areas on the other.

Learning Outcomes:
- A general and broad knowledge of the major issues of the rural water supply, sanitation and hygiene education in the developing countries.
- Knowledge of some of the key geographic, environmental and social justice issues facing our world today.
- Ability to think and write critically about these issues.

Lecture Schedule:

Week 1: Jan. 28 – 31
Availability of water in the world
Relationship between water, sanitation and hygiene

Readings:
Week 2: Feb. 4-7

History of rural water and sanitation since 1960s

Readings:

Week 3: Feb. 11-14

International and national water policies and their Problems

Readings:

Thur. Feb. 14

NO CLASS (Classes follow Tuesday schedule)

Week 4: Feb. 18 - 21

Rural water approaches since 1960s

Reading:

Week 5: Feb. 25 - 28

Sources of surface water

Reading:

Week 6: March 4-7

Sources of ground water

Reading:

Week 7: March 11-14

Rural water collection, storage and consumption

Reading:
Thompson, John et al. 2001. *Drawers of Water II: 30 years of change in domestic use & environmental health in east*
http://pubs.iied.org/pdfs/9049IIED.pdf

**Week 8: March 18 -21**

**Water quality and perception**

**Reading:**

**Thursday March 21**

**NO CLASS** (Mid-term for undergraduate)

**March 25 – April 2**

**Spring Recess**

**Week 9: April 4**

**Water-borne diseases**

**Reading:**

**Week 10: April 8 -11**

**Challenges to rural water: population growth and water scarcity.**

**Readings:**

**April 15**

**Submission of the first draft of the term paper** (hard copy only)

**Week 11: April 15-18**

**Challenges to rural water: Climate change and Corruption**

**Readings:**

**Week 12: April 22-25**

**Types of sanitation services in the rural areas**
Readings:


Week 13: April 29

Importance and application of hygiene education

Reading:


Week 14: May 2

Sustainability of rural water supply, sanitation and hygiene education

Reading:


Week 15: May 6-9

Sustainability of rural water supply, sanitation and hygiene education

Week 16: May 13-16

Summary and conclusions

Grading system:

Class Participation ______________________ 20%
Presentation of a seminar ______________________ 10%
A Paper on the Seminar Topic__________________ 20%
A Research Paper__________________________ 50%

Please note the following guidelines for your papers:

1. Choose any two topics from the topics listed in the lecture schedule.
2. The professor must approve your topics.
3. Present the first topic as a seminar to the class and write a short paper about it. The seminar should take between 15 to 30 minutes. The paper must be at least 15 pages long, double-spaced, one inch margins on all sides and 12 point font.
4. It should include a minimum of 15 cited references from books and peer-reviewed
5. Write a research paper about the second topic which must be between 22 to 25 pages long with a minimum of 20 cited references from books and peer reviewed journals. It should be submitted by May, 2nd, 2013. The paper should be double-spaced, one inch margin on all sides and 12 point font.

6. The papers should include tables, maps or graphs (notate the source).

7. In case of citation of references in the text, use APA format (parentheses) and NOT the MLA format (You will be given examples in the class).

8. There should be a cover page showing the title, your name, course number, instructor’s name and the semester.

9. Sub-headings should be used in the paper along an introduction and a conclusion.

10. The bibliography should be written properly at the end of the paper.

11. The deadlines for submission of the first paper is April 15, 2013 and the other May 14/2012.

12. If you have any question(s) come and see me.

**Attendance and Grading Policies:**

There is a direct correlation between good grades and good attendance. Come to the class prepared, read the appropriate articles of the reading list, take notes, study for your exams and you will be successful. Attendance is taken in every class meeting.

Please … do not hesitate to come and see me if you have any question.

**HUNTER COLLEGE’S STATEMENT ON ACADEMIC HONESTY:**

Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing the CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.

And I might add that creative originality and integrity are essential if you want to develop the kind of knowledge that is going to do you any good in life. When you cheat at school, the one you are really cheating is ultimately your future self.

**ADA Policy**

In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical, and/or Learning) consult the Office of ACCESSABILITY, located in Room E1214B, to secure necessary academic accommodations. For further information and assistance, please call: (212) 772-4857 or (212) 650-3230.
Reading list
Last accessed December 5, 2007

Amounts of global water and history of rural water supply and sanitation

Water Policies, approaches and management


**People Participation and Gender**


**Water sources, collection, storage, consumption, water quality and perception**


**Challenges to rural water supply (population, water quality, water scarcity, climate change, and corruption and water mismanagement)**


**Sustainable rural water supply and sanitation services**


