Synopsis of Course
This is an introductory course on the significance of water in our world. The title of the course makes reference to i) water as a global and local natural resource (Water), ii) water quality (i.e., chemistry of water, H2O) as affected by human activities, and iii) the science and technology of bringing clean water to peoples in need (WaTER, an acronym for "Water Technologies for Emerging Regions"). The course is directed towards college freshmen to upperclassmen from all majors interested in a general introduction to the world of water. Students taking the course for credit will watch short online lecture modules and read assigned readings on each topic, reflect upon and analyze discussion questions, and participate in classroom discussions with peers on the relevant topics. The course is designed to generate awareness of water's beneficial uses as well as the challenges associated with water quality, scarcity, over-abundance (flooding), and inequities in access to clean water. It will also introduce the students to the need to consider both technological options and cultural context in determining sustainable solutions to water problems.

Required Texts and Website
• course website: janux.ou.edu

Instructors
David A. Sabatini sabatini@ou.edu 325.4273
Jim F. Chamberlain jfchamb@ou.edu 325.5140

Description
Online lecture modules are in short, easily digestible segments of 6 to 10 minutes in length. There may be one to three modules for any given topic. Students will be expected to listen / watch the modules and to read the assignment before coming to class. They may also be given discussion questions to reflect upon and blog about before coming to class. In-class time will be for interactive activities and large and small group discussion of the questions. Additional assignments include a book review (3-5 pages) and a water issue case study (8-10 pages). There are no exams for this course. The schedule of class sessions is given below (on the following page):

Session
(Date) Online Lecture Modules by Topic Pages in Text
1
(01/14) 1. WATER: THE BIG PICTURE
1.1 Water on a Global Scale 18 - 27
1 • Instructions given for Book Review
o select and order your book
2
(01/21) 2. WATER AND HEALTH
2.1 A Historical Perspective: Water, Sanitation and Health - London, Chicago and Milwaukee Case Studies -
3 (01/28) 2.2 Sanitation and Hygiene 44 - 45, 50 - 55
4 (02/04) 2.3 Diseases Related to Water 44 - 45, 50 - 55
5 (02/11) 2.4 Naturally Occurring Ground Water Compounds: Arsenic, Fluoride and Others -
6 (02/18) 3. WATER AND SOCIETY
3.1 Agriculture and Industry 56 - 73
6 • Book Review (3 -5 pages) due (for in-class students only)
   • Instructions for Water Issue / Case Study Paper assignment
7 (02/25) 2.5 Technologies for Water / Wastewater Treatment 46 - 49
8 (03/04) 3.2 Energy and the "Water Footprint" 94 - 95
8 • Water Issue / Case Study Paper - proposal / problem statement due
to post on D2L for peer feedback
9 (03/11) 4. WATER CHALLENGES
4.1 Damaged Water – Water Pollution 74 - 83
9 • Peers (and instructors) give feedback on proposal / problem statement

- - - SPRING BREAK (03/18) - - -
10 (03/25) 4.2 Water Competition, Conflict and Cooperation: Within and Between Countries 28 - 29
11 (04/01) 4.3 Water, Weather and Climate 30 - 43
12 (04/08) 4.4 Water Management 84 - 99
13 (04/15) 5. WATER OPPORTUNITIES
5.1 Water: Social, Cultural and Political Factors -
14 (04/22) 5.2 Water Reclamation and Reuse -
15 (04/29) 5.3 Getting Involved: Water in Oklahoma and Beyond -
15 • Water Issue / Case Study Paper Due

Grading

The course grade will be determined according to the scale listed below:

Book Review 30 %
Water Issue Report 40 %
In-class Assessments (RAT's) 15%
Class Participation 15%

W's, I's, and AU's

Withdrawal deadlines, and deadlines for switching from credit to audit, are listed in the Course Schedule. No exceptions to these dates will be granted. A grade of incomplete will be issued only if, due to extenuating circumstances, the student has a small amount of work remaining to be completed at the end of the semester. The student must be passing the course at the time the "I" grade is given. Work must then be completed within the specified time frame, but not to exceed one year.

Disabilities

Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact us personally as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunities.

Academic Honesty

Students are required to abide by the policies set forth in the Student Code; copies of the Code are available from the Office of the Vice-President for Student Affairs. As for this class, any student who cheats on an exam or quiz will receive an "F" for the course. All acts of academic misconduct will be reported to the Dean in accordance with the Faculty Handbook, Section 13.

BIBLIOGRAPHY FOR BOOK REVIEW
[choose ONE for your review]


