

WATER ISSUES: PHILOSOPHICAL, CULTURAL AND SCIENTIFIC ASPECTS, SPRING 2005

PHIL 5960.002, BIOLOGY 5900, Three (3) Credit Hours.
Library Philosophy Dept, EESAT 225A,W 6.00-8.50

Professors: Dr. Irene J. Klaver, UNT, Philosophy (565-3331); klaver@unt.edu
Dr. Thomas W. La Point, Biological Sciences (369-7776); lapoint@unt.edu
Office Hours: by appointment.

COURSE TEXTS:

- Barlow M. and Clarke T. 2002. *Blue Gold*. The New Press, New York, NY. 278 p.
- Blatter, Joachim and Ingram, Helen, 2001. *Reflections on Water-New Approaches to Transboundary Conflicts and Cooperation*. The MIT Press, Cambridge, MA.
- Glennon, R. 2002. *Water Follies: Groundwater Pumping and the Fate of America's Fresh Waters*. Island Press, Washington, D.C.
- Gleick, Peter, et al., 2004. *The World's Water 2003 - 2004: The Biennial Report on Freshwater Resources*. Island Press, Washington, D.C.
- Postel, Sandra, and Brian Richter, 2003. *Rivers for Life: Managing Water for People and Nature*. Island Press, Washington, D.C.
- de Villiers, M. *Water: The Fate of our Most Precious Resource*. Boston: Houghton Mifflin Company, 2000.

HANDOUTS

- Excerpts from: Luna B. Leopold, *Water, Rivers and Creeks* (University Science Books, 1997)
- Excerpts from: Paul S. Giller and Bjorn Malmqvist, *The Biology of Streams and Rivers* (Oxford University Press, 1998)
- Excerpts from Carmen Revenga, Siobhan Murray, Janet Abramovitz, Allen Hammond, *Watersheds and the World: Ecological Value and Vulnerability*, Worldwatch Institute, 1998
- Irene Klaver and John Donahue, "Whose Water is it Anyway?" Boundary Negotiations on the Edwards Aquifer in Texas" forthcoming in *Globalization, Water and Health: Resource Management in Times of Scarcity*, eds. Linda and Scott Whiteford, School of American Research Press, 2005

VIDEOS:

Cadillac Desert Series. Four PBS videos. (NB program 4: Sandra Postel (55 min)
(Chilton Media Library MV 4247 V. 4)

GRADING:

Grades will be determined by a combination of the following components.

I. (20%)

1. Participation in discussions on the required readings.

2. One literature presentation. This includes writing a 1-2 page summary to be distributed to the class and leading the discussion of that session. Don't read the summary but present 2 or 3 topics for discussion.

II. (20%)

1. Student should collect newspaper and/or journal articles about water issues on a regular basis. Follow leading newspapers, such as the New York Times, Washington Post, Dallas Morning News, magazines for Water-news, websites from alternative press.
2. Gather advertisements about water in whatever form!
3. Participation in WaterWays 2005 events.

III. (60%) Course paper or "project," content and format of which must be agreed on by student and professors by the end of Spring Break (in Week IX, March 23, 2003). Collaboration is encouraged, especially between students of different disciplines.

READING SCHEDULE

WEEK I: WEDNESDAY, JAN 19:

Introduction and Overview of Course;
Cadillac Desert Video I, "Mulholland's Dream"

WEEK II: WED, JAN 26:

1. Hydrology and Watersheds Handout: Excerpts from: Luna B. Leopold, *Water, Rivers and Creeks* (University Science Books, 1997)
2. Barlow and Clarke, *Blue Gold*, Part I, The Crisis, pp. ix-77.

WEEK III: WED, FEB 2:

1. Streams, Rivers & Reservoirs I: Watersheds and their Drainages; Theories of Community Composition Handout: Excerpts from: Paul S. Giller and Bjorn Malmqvist, *The Biology of Streams and Rivers* (Oxford University Press, 1998)
2. Postel and Richter, *Rivers for Life*, Chs 1-2, pp. 1-79.

WEEK IV: WED, FEB 9:

1. Streams, Rivers & Reservoirs II: Linkages Between Land and Water
1. Barlow and Clarke, *Blue Gold*, Part II, The Politics, pp. 79-181.
2. Glennon, R. 2002. *Water Follies*, Intro, Chs 1-2, pp. 1-35

WEEK V: WED, FEB 16:

1. Postel and Richter, *Rivers for Life*, Chs. 3-4, pp. 79-167.
2. Glennon, R. 2002. *Water Follies*, Chs 10-12, pp. 143-183

WEEK VI: WED, FEB 23:

1. Barlow and Clarke, *Blue Gold*, Part III, The Way Forward, pp. 181-251.
2. Gleick, Peter, *The World's Water 2003 – 2004*, Ch 3, "Water Privatization", pp. 45-77.

WEEK VII: WED, MARCH 3:

1. Postel and Richter, *Rivers for Life*, Chs 5-6, pp. 167-205
2. Glennon, R. 2002. *Water Follies*, Chs 13-15, pp. 183-225

WEEK VIII: WED, MARCH 10:

1. Gleick, Peter, 2004. *The World's Water 2003 – 2004*, Ch 4, “Groundwater”, pp. 79-100
2. Glennon, R. 2002. *Water Follies*, Ch. 6, pp. 87-99
3. Klaver and Donahue, “Whose Water is it Anyway?” Boundary Negotiations on the Edwards Aquifer in Texas”
4. de Villiers, *Water*, Ch 9 “Shrinking Aquifers,” pp. 146-166

WED, MARCH 17: SPRING BREAK: NO CLASS

WEEK IX:

TUE, MARCH 22: WATERWAYS 2005.

PICKENS-POSTEL-POTTS PANEL. UNT LYCEUM 7-9 PM

WED, MARCH 23:

Blatter and Ingram, *Reflections on Water*, Part I, Chs.1-2, pp. 3-57

PAPER TOPICS DECIDED

WEEK X: WED, MARCH 30:

1. Blatter and Ingram, *Reflections on Water*, Ch.3 & Ch. 7, pp. 57-89 & 189-213
2. de Villiers, *Water*, Preface and Part I,” pp. xiii-65

WEEK XI: WED, APRIL 6:

1. Gleick, Peter, *The World's Water 2003 – 2004*, Ch 1& Ch 7, pp. 1-17 & pp. 157-187
2. de Villiers, *Water*, Chs. 4-5, pp. 67-105

WEEK XII: WED, APRIL 13:

1. Gleick, Peter, *The World's Water 2003 – 2004*, Ch 2, pp.17 -45
2. Blatter and Ingram, *Reflections on Water*, Ch 11, pp. 297-321.

WEEK XIII: WED, APRIL 20:

1. Blatter and Ingram, *Reflections on Water*, Ch. 12, pp. 321-341
2. de Villiers, *Water*, Ch. 11, 12, 14 pp. 185-216, 231-263

THU-SA, APRIL 21-23: WATERWAYS 2005

SA: PRESENTATION HERBERT DREISEITL

WEEK XIV: WED, APRIL 27:

de Villiers, *Water*, Ch16, pp. 275-317

WEEK XV: WED, MAY 4: Dead week; Regular Class; No new reading.

PAPER DUE

WEEK XVI: WED, MAY 11: Official Exam Time; DISCUSSION PAPERS