

LOCK HAVEN UNIVERSITY
GEOS 328/628 – Science Seminar
Fall 2008

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Homepage: <http://www.lhup.edu/mkhalequ/> (reading assignments, outlines for topics, instructions for term paper, and rubric for evaluation of term paper and oral presentations will be posted online)

Classes meet: Tuesdays and Thursdays 9:30-10:45 am (Ulmer 101)

Objectives: The main goal of this seminar is to study all aspects of water resources at local, regional, national, and global scales. Topics will include (but are not limited to), water as a resource for both humans and ecosystems, quality of waters and environmental problems, laws and regulations related to surface water and groundwater for national and international water bodies, water as a source of conflicts, and sustainable development of water resources. The topics will be explored through lectures, group discussions, audio/visual demonstrations, outdoor activities, and research on pre-approved topics by each student in the class.

Grading:

- Weekly quizzes = 25%
- Individual & group papers/discussions = 25%
- Individual term paper = 25%
- Oral presentation of term paper = 15%
- Attendance & participation = 10%

Note: Attendance in classes is mandatory. All members in a group will be expected to equally contribute to the group papers and discussions. Each member in a group will have to put his/her signature on group papers. There will be no make up quiz. Each student will investigate a pre-approved topic related to the course objectives; and will submit a typed term paper and will make an oral presentation on the same topic during the last two weeks of the semester. A schedule for presentations will be prepared in consultation with students. However, any conflict in schedule for term paper presentations will be decided by me, and students will have to abide by my decision. Graduate student(s) will be expected to take leadership role in the class and to perform at higher level for each assignment as compared to their undergraduate counterparts.

Dates	Discussion Topics and Activities	Dates	Discussion Topics and Activities
Aug. 26	Introduction, hydrologic cycle, impacts of humans on hydrologic cycle	Aug. 28	Quiz; Movie: Crisis Planet Earth (1), and group discussions on hydrologic cycle
Sept. 2	Importance of Water ; Basins & Watersheds	Sept. 4	Quiz; Group Position Papers on Watershed
Sept. 9	Movie: Wrath of God – Miss R. Out of Control; Discussion	Sept. 11	Quiz; Movie: Levees; Group Discussion; Visit Lock Haven Levees
Sept. 16	Water as Resources, Recreation, Energy	Sept. 18	Quiz; Individual Discussion Papers
Sept. 23	Watershed Management – Flooding, Erosion, Karsts, Subsidence, Landslides	Sept. 25	Quiz; Group Discussions & papers
Sept. 30	Movie: New Orleans; Discussion	Oct. 2	Quiz; Discussion on flooding & BMPs
Oct. 7	No classes –Monday schedule	Oct. 9	Movie: Children of the River & W. Br. Sus
Oct. 14	Water as Source of Conflicts; Discussion	Oct. 16	Quiz; Group papers & discussions
Oct. 21	Water Quality Issues- Env. Injustice	Oct. 23	Quiz; Group papers & discussions
Oct. 28	Local water quality; Movie: Ag & Env.	Oct. 30	Quiz; Group paper & discussion
Nov. 4	Water Laws, Acts, Policies, Regulations	Nov. 6	Quiz; Group paper & discussions
Nov. 11	Global Water-related Environmental Issues; Movie: Crisis Planet Earth – 2 nd part	Nov. 13	Quiz; Group paper & discussions
Nov. 18	Quiz; Movie: Global Waning?	Nov. 20	Quiz; Group discussion
Nov. 25	Movie: Environmental Tech I & II	Nov. 27	Thanksgiving Holiday – No Class
Dec. 2	Oral Presentations & Term Papers	Dec. 4	Oral Presentations & Term Papers
Dec. 11	Oral Presentations & Term Papers 10:00-11:50 am)		