Syllabus

GEOL 480.01: Hydrogeology

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**FALL 2000**

**GEOLOGY 480 - 4 CREDITS**

**HYDROGEOLOGY**

Instructor: William W. Woessner (SC329)

Text: Required - *Applied Hydrogeology*

Course goals and objectives: Prepare students in environmental geology and related fields to evaluate and quantitatively analyze hydrogeologic problems.

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November 9  Hydrogeologic Systems - **Problem Set II Due**

November 10  Field Trip - 12:00 p.m. - 5:00 p.m.

November 14  **Exam II**

November 16  No Class - Work on Term Paper

November 21  Flow to Wells - **Term Paper Due**

November 23  **Holiday**

November 28  Flow to Wells

November 30  No Class

December 5  Flow to Wells

December 7  Water Quality

December 12  Solute Transport

December 14  Ground Water Management - **Problem Set III Due**

**FINAL EXAM:**  Wednesday, December 20, 10:10-12:10 p.m.

**COURSE ASSESSMENT:** Quality of problem sets. Exams and term paper.

**GRADING:**
- 3 Problem Sets  27%
- 2 Exams  40%
- Term Paper  8%
- Final Exam  25%

**TERM PAPER:**

The term paper will be a research report on the Hydrogeology of the city or county in which you grew up or a topic assigned by the Professor. All reports will be assigned no later than September 30. All reports will be no longer than 10 pages of text (excluding figures) and will clearly describe the location, geology, and hydrogeology of the area. It will include information on the hydrostratigraphy, occurrence, movement, quantity, and quality of groundwater as well as its uses in the area. All papers will follow a format of the USGS Water Resources Investigations and include full cited references. Sources of information include professional journal articles, State Geological Survey and Water Survey reports, USGS Water Supply Papers, Professional Papers and Water Resources Investigations, and consulting reports.

All assignments given are expected to be turned in on time for grading in neat and edited form. Problem set assignments are due at the beginning of class on the day due with no exceptions. If you cannot make it to class, give the work to someone who can turn it in for you.

I will post office hours for questions, and you may see me any other time I am in my office if it is convenient.
Outside reading for this class is strongly suggested. The library contains a number of general hydrogeology textbooks which I feel will give additional depth to parts of the course I can only summarize. A list of readings is attached.

**REFERENCES**

**Textbooks**


**Articles and Other Publications**