Geology 372: Watershed Hydrology

Syllabus - Fall 2006
Dr. Robert Mitchell

Text

Course Description
An introduction to the processes controlling the water budget of a watershed and streamflow. Basins in the Lake Whatcom watershed will be used as a model for teaching hydrological concepts. An overview of current hydrological issues will also be discussed.

General Topics Discussed
- Hydrologic Cycle and Water Budgets
- Measuring Streamflow and Hydrographs
- Precipitation, Interception and Fog Drip
- Infiltration, Percolation and Soil Storage
- Ground Water Hydrology
- Riparian and Hyporheic Zones
- Energy, Evaporation, and Transpiration
- Snow Hydrology
- Runoff and Hydrograph Analysis
- Flooding and Flood Control
- Water Quality

I reserve the right to change the syllabus as required throughout the term to better meet the instructional needs of the class.

Homework
You will complete about 5 assignments that are designed to teach you how to gather, analyze, and interpret real data from a watershed.

Exams
One midterm exam and a comprehensive final exam will be given. You will be required to take all exams at the scheduled times. Make-up exams will be given only in the case of official prearranged absences or emergencies. An excused absence form from the office of Student Affairs is required.

Grading
The grading break down will be as follows:

- Homework - 30%
- Midterm - 30%
- Final Exam - 40%

The final exam is scheduled Thursday Dec 14 at 3:30 pm

A grading scale will be as follows (a curve is possible but not certain):
- 100-93 = A, 92-90 = A-, 89-88 = B+, 87-83 = B, 82-80 = B-, 79-78 = C+, 77-73 = C, 72-70 = C-, 69-68 = D+, 67-63 = D, 62-60 = D-, 60 or below = F