

Contact Information

Andrew Reeve, 220 BGSC, 581-2353, asreeve@maine.edu

Lectures: 11:00-11:50 MWF

Office Hours: MW 9:00 to 10:00

Text: Todd and Mays (2004) Groundwater Hydrology, Prentice-Hall., or C. Fitts. 2002. Groundwater Science, Academic Press (other textbooks may be substituted)

Class Schedule

Week	Topic	Reading
1	Groundwater Reservoirs and Fluxes, Properties of Water	Fitts 1, Fitts 2
2	Darcy's Law and Associated Parameters	Fitts 3.1-3.7, 3.9-3.11
3	Hydrogeologic Units	Fitts 4.3.1
4	Steady-State Groundwater Flow	Fitts 4
5	Groundwater Storage	Fitts 5
6	Transient Groundwater Flow	Fitts 6
7	Hydrogeologic Parameters: Laboratory Tests	Fitts 4.2
8	Hydrogeologic Parameters: Piezometer Tests	Fitts 3.8
9	Hydrogeologic Parameters: Pumping and Tracer Tests	Fitts 3.8
10	Computer Simulation of Groundwater Flow	Fitts 8.2
11	Groundwater Chemistry: Basic Parameters and Graphical Interpretation	Fitts 9
12	Groundwater Chemistry: Equilibrium Chemistry	Fitts 9
13	Thanksgiving Break, Nov. 27-29	
14	Solute Transport and Chemical Kinetics	Fitts 10.5-10.7
15	Solutions to Advection-Dispersion Equations with Kinetics	

Grading

Exam 1	15%	Wk 4
Exam 2	15%	Wk 8
Exam 3	15%	Wk 12
Problem Sets	30%	Bi-weekly
Final Exam	25%	

Miscellaneous

Special Accommodations If you wish to request an accommodation for a disability, please contact either your instructor or Ann Smith, Coordinator of Student Services for Students with Disabilities (Onward Building, 581-2319) as early as possible in the semester.

Emergency Procedure In case of emergency, students will exit from the rear (ground floor) of the building and gather on the lawn behind the building and next to the parking lot.