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# Course Organization

## Organizational Meeting

The first class meeting (Jan. 9th, 10:45am-12:15pm) will be dedicated to an organizational meeting, at which time a general outline of the class topics, and any desired changes in lab or lecture schedule will be discussed.

## Grading

Course grades determined using the following weights: 60% homework, 20% midterm, 20% final. Major modeling homeworks will be due two weeks after assignment, smaller problem sets will be due one week after assignment.

## Syllabus

Week	Dates	Text Chapters	Lecture Topic	Lab
1	Jan. 10, 12		Organizational Meeting, Examples of Groundwater Modeling (Yucca Mountain)	
2	Jan. 17, 19	1-2	Review of Groundwater Hydrology	
3	Jan. 24, 25	3-4	Introduction to Groundwater Modeling	
4	Jan. 31, Feb. 2	5-6	Overview of Governing Equations and Numerical Methods	Introduction to <b>GMS</b>

5	Feb. 7, 9		Conceptual Model Development	<b>GMS</b> Map Module (GIS interface)
6	Feb. 14, 16		Conceptual Model (cont.)	
7	Feb. 21, 23		Model Parameterization & Interpolation	<b>GMS</b> 2D Scatter Module,
8	Feb. 28, Mar. 2		Hydrologic Boundaries and Model Boundary Conditions, Midterm	
	Mar. 7, 9		Spring Break	
9	Mar. 14, 16	7	Water Sources and Sinks (Wells, Leakage), Analytic Element Method	<b>GMS</b> Application of ModAEM
10	Mar. 21, 23	8- 10	Introduction to Modflow	<b>GMS</b> Interface to <b>Modflow</b>
11	Mar. 28, 30	7	Cross-Sectional (Profile) Models	<b>GMS</b> Borehole Module & Well Test Data
12	Apr. 4,6	12	Transient Models, Time-Stepping	Numerical Stability, Calibration & Model Execution & Reporting
13	Apr. 11, 13	12	Particle Tracking & Capture Zone Analysis	Introduction to <b>Modpath</b>
14	Apr. 18, 20	12	Class Project Presentations	
15	Apr. 25?		Final	

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