



GEL 4250 - HYDROGEOLOGY (Groundwater)

Fall 2016 Classes

Calendar: (Tentative Lecture Schedule & Firm Assessment / Due Dates)

Date	Tentative Lectures & Firm Dates
Monday, August 22, 2016 Tuesday, August 23, 2016	MW Classes: Course Begin. Course Intro! Course Overview! TR Classes: Course Begin. Course Intro! Course Overview!
Monday, August 29, 2016 Tuesday, August 30, 2016	MW classes: Basic Math Skills Exam + Basic Chemistry Skills Exam TR classes: Basic Math Skills Exam + Basic Chemistry Skills Exam
Wednesday, August 24, 2016 through Monday, September 5, 2016	Water Physics (Ch.2) NO LABS!!!
Tuesday, September 6, 2016 through Wednesday, September 21, 2016	Intro to Hydrochemistry (Ch.9), Sampling & Lab Procedures Solubility & Concentration - units, Groundwater Chemistry - Chemical Processes & Speciation (Ch.9); Units - Solubility (Ch.9), pH, electric conductivity (Ch.9), Hardness (Ch.9) LABS: Sulfate Lab - pH - Conductivity - HCO₃ Titration Lab
Monday, September 26, 2016 through Thursday, October 6, 2016	Hardness (Ch.9), Cation & Anion Balance (Ch.9), Chemical Analysis Graphing (Ch.9), Groundwater classification (Ch.9 & 10), Groundwater Quality (Ch.10 & 11) LABS: Sulfate Measure DR2000 - HCO₃ Measure Titration Set-up
Friday, October 7, 2016	HYDROCHEM LAB 1 Due!
Monday, October 10, 2016 through Thursday, October 20, 2016	Water Physics / Springs (Ch.2), Springs / Groundwater Storage & Storage Capacity (Ch.2 & 6), Aquifer / Aquitard/ Porosity (Ch.2, 3, & 6), Hydrostatic Pressure / Hydraulic Conductivity / Permeability (Ch.3) LABS: Porosity Lab - Permeability Lab - Sulfate Measure DR2000 - HCO₃ Measure Titration Set-up
Monday, October 24, 2016 Tuesday, October 25, 2016	MW Classes: Hydrochemistry Concepts & Calculations Exam TR Classes: Hydrochemistry Concepts & Calculations Exam
Monday, October 24, 2016 through Thursday, November 10, 2016	Hydrostatic Pressure / Hydraulic Conductivity / Permeability (Ch.3), k_f -values (Ch.4), LABS: Porosity Lab - Permeability Lab - Sulfate Measure DR2000 - HCO₃ Measure Titration Set-up
Friday, November 11, 2016	POROSITY & PERMAEABILITY LAB 2 Due! DEADLINE: GEOLOGY PROJECT 1st SUBMITTAL ("A" Grade, see Assignment for Details)
Monday, November 14, 2016 through Thursday, November 17, 2016	Hydraulic Conductivity - Theiss & Wu Curves (Ch.4), k_f -values (Ch.4), Storage Coefficients (Ch.4, 5), Flow Nets (Ch.7) LABS: Sulfate Measure DR2000 - HCO₃ Measure Titration Set-up - Theiss Curve Exercise Flownet Exercise
Wednesday, November 16, 2016 Thursday, November 17, 2016	MW Classes: Water, Permeability, Porosity Exam TR Classes: Water, Permeability, Porosity Exam
Monday, November 21, 2016 through Thursday, November 24, 2016	FALL BREAK! NO CLASSES!
Monday, November 28, 2016	MANITOU SPRINGS GEOCHEMICAL GRAPHING ASSIGNMENT DUE! DEADLINE: GEOLOGY PROJECT 2nd SUBMITTAL ("B" Grade, see Assignment for Details)
Monday, November 28, 2016 through Thursday, December 1, 2016	Storage Coefficients (Ch.4, 5), Flow Nets (Ch.7) LABS: Sulfate Measure DR2000 - HCO₃ Measure Titration Set-up - Theiss Curve Exercise Flownet Exercise
Monday, December 5, 2016 through Thursday, December 8, 2016	Storage Coefficients (Ch.4, 5), Flow Nets (Ch.7) LABS: Flownet Exercise - LAB ACCURACY EXAM SET-UP
Monday, December 12, 2016	DEADLINE: GEOLOGY PROJECT 3rd & FINAL SUBMITTAL ("C - F" Grades, see Assignment for Details)! FLOWNET LAB 3 Due! AQUIFER PUMPING LAB 4 Due! Deadline: ALL REMAINING WORK DUE BY 12:00 MIDNIGHT
Monday, December 12, 2016 through Thursday, December 15, 2016	Final Exam Week!!! ABSOLUTELY NOTHING ACCEPTED, don't even try! Aquifer Pumping Concepts & Calculations Exam!