

George Mason University
CHEMISTRY 212
Laboratory Syllabus
Spring 2010

Laboratory Manual: Suzanne Slayden, 1999, Chemistry 211, 212, 251 Laboratory Experiments, 3rd Edition, GMU Bookstore, Johnson Center.

Web Site is the menu item "handouts" on the GenChem results web page.

Week of	Laboratory Experiment / Exercise	Pages
Jan. 18	Labs will not meet this week	
Jan. 25	Check-in, Lab Safety, Excel Refresher	1-4
Feb. 1	Molecular Mass by Freezing Point Depression	107-112
Feb. 8	Redox Titration of Oxalate by Permanganate	121-126
Feb. 15	Kinetics, Part I--Iodine Clock Reaction	Web Site
Feb. 22	Kinetics, Part II--Crystal Violet	Web Site
Mar. 1	Measurement of Equilibrium Constant	145-154
Mar. 8	Spring Break—No Labs This Week	
Mar. 15	Acidity Constant by pH Titration Curves	165-169
Mar. 22	Dissociation Constants of Acids and Bases	155-164
Mar. 29	Molar Solubility and the Common-Ion Effect	Web Site
Apr. 5	Thermodynamics of the Dissolution of Borax	Web Site
Apr. 12	Make-up Week, If Necessary	-----
Apr. 19	Electrochemical Measurements	Web Site
Apr. 26	Clean up and Check out	

THERE ARE NO MAKE-UP LABS IN CHEMISTRY 212. In the event of an unavoidable absence, the instructor must be notified as soon as possible to obtain approval for attending another lab section. If no prior notice of the absence is given to the instructor, then a grade of zero will be given for the missed lab. A student cannot receive a passing grade in this course unless at least *eight* of the lab experiment sessions are attended *and satisfactory reports handed in on time*. Attending a lab session and not performing the experiment does not constitute completing an experiment. Dry-labbing (analyzing data that you did not collect) is an honor code violation and will be dealt with accordingly.

ATTENDANCE AT THE LAST LABORATORY MEETING IS REQUIRED