

George Mason University  
CHEMISTRY 212  
Laboratory Syllabus  
Fall 2005

---

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

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

<b>Week of</b>	<b>Laboratory Experiment / Exercise</b>	<b>Pages</b>
Aug. 29	Check-in, Lab Safety, Excel Refresher	1-4
<b>Sept. 5</b>	<b>Labor Day Recess--no labs meet this week</b>	
Sept. 12	Molecular Mass by Freezing Point Depression	107-112
Sept. 19	Redox Titration of Oxalate by Permanganate	121-126
Sept. 26	Determination of Molar Mass—Dumas Method	<b>Web Site</b>
Oct. 3	Chemical Kinetics of Crystal Violet	<b>Web Site</b>
<b>Oct. 10</b>	<b>Columbus Day Recess--no labs meet this week</b>	
Oct. 17	Measurement of Equilibrium Constant	145-154
Oct. 24	Acidity Constant by pH Titration Curves	165-169
Oct. 31	Dissociation Constants of Acids and Bases	155-164
Nov. 7	Molar Solubility and the Common-Ion Effect	<b>Web Site</b>
Nov. 14	Thermodynamics of the Dissolution of Borax	<b>Web Site</b>
<b>Nov. 21</b>	<b>Thanksgiving--no labs meet this week</b>	
Nov. 28	Electrochemical Measurements	<b>Web Site</b>
<b>Dec. 5</b>	<b>Clean up and Check out</b>	

**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 ten of the lab 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**