

**CHEMISTRY 3407 LABORATORY SCHEDULE - FALL 2018**

Week of:	Procedure	Outline	Report
Aug. 27	Check into lab	MONDAY	due on FRIDAY
Aug. 27	<b>Experiment 1</b> , handout <b>Experiment 2</b> , handout		
Sept. 3	<b>Lecture - Ch. 2, 3, 4 - in Lab</b>		
Sept. 10	<b>Gravimetric Chloride</b> Check out and dry chloride unknown Precipitate AgCl Filter, dry and weigh AgCl Calculate chloride unknown	Cl - G	Exp. 1 Exp. 2
Sept. 17	<b>Gravimetric Sulfate</b> Check out and dry sulfate unknown Precipitate BaSO <sub>4</sub> Filter and ignite BaSO <sub>4</sub> - in HOOD. Calculate SO <sub>3</sub>	SO <sub>4</sub> - G	Cl - G
Sept. 24	<b>Titrimetric Chloride</b> Check out and dry Cl unknown Prepare std silver nitrate Titrate Cl by Fajans method Titrate Cl by Mohr method Calculate chloride	Cl - T	SO <sub>4</sub> - G
Oct. 1	<b>KHP</b> Check out and dry KHP std and unknown Prepare and std. NaOH Titrate KHP Calculate KHP	KHP	Cl - T
Oct. 8	<b>Soda Ash</b> Check out and dry soda ash unknown Prepare and std. HCl Titrate soda ash Calculate soda ash	Na <sub>2</sub> CO <sub>3</sub>	KHP
Oct. 15	<b>EDTA</b> Check out and dry Ca unknown Titrate Ca with EDTA using Cal Red Calculate Ca	EDTA	Na <sub>2</sub> CO <sub>3</sub>
Oct. 22	<b>Titrimetric Sulfate</b> Check out and dry sulfate unknown Prepare std potassium sulfate and BaCl <sub>2</sub> Titrate standard and unknown sulfates Graph data and calculate SO <sub>3</sub>	SO <sub>4</sub> - T	EDTA

Oct. 29	<b>Spectrophotometric Ksp</b> Check out unknown Cu compound Prepare standard solutions Prepare unknown solutions Read samples on spectrophotometer Calculate Cu	Cu	SO <sub>4</sub> - T
Nov. 5	<b>Potentiometric Titration</b> Check out and dry soda ash Prepare and standardize HCl Titrate soda ash Calculate soda ash	Pot. Titr	Cu
Nov. 12	<b>Redox Titration</b> Check out and dry oxalate unknown and std Prepare and standardize KMnO <sub>4</sub> Titrate unknown oxalate Calculate soda ash	Redox	Pot. Titr
Nov. 19	Catch up Bonus Unknowns (if caught up)		Redox
Nov. 26	Catch up Bonus Unknowns (if caught up)		
Dec. 3	Lab Final (in class)		
Dec. 12	Check in and Clean Up		