Analytical Instrumental Laboratory
CHEM 314; Spring 2018

Course Name: CHEM 314, 3 credits
Prerequisites: CHEM 212
Location: Reichardt 165 (lecture); Reichardt 245 (lab)
Meeting Time: M 9:15-10:15am (lecture), MW 2:15-5:15pm (lab)
Final: Friday, May 4 1-3 pm (based on lab meeting time)
Instructor: Dr. Jingqiu Mao
Office: Reichardt 188
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Email: jmao2 @alaska.edu
Office Hours: T&TH 2-4PM (other times by appointment).

Recommended Materials:
Skoog, Holler and Crouch,

work, a list of all reagents and materials needed, a description of what you expect to find and/or how you will analyze the data, and include references to any outside sources consulted.

1. Title-

3. **Introduction-** (2-3 paragraphs) Give some background on your question. Feel free to recycle from the project definition, but make it concise and coherent.
4. **Instrument Diagram**- (1-

Additional Guidelines for Written Assignments

Abbreviations are often necessary and should be introduced clearly when used the first time.
Element names (Iron) are spelled out only if they are the first word in a sentence and when they are part of a name (iron oxides). Otherwise, the symbol is used (Fe).
Succinct description and clear reference in text to all figures and tables in the text.
Do not duplicate data between the text and figures or tables
Use SI units or the standard units in the field for all laboratory data. Appropriate formatting is used to indicate units. For example, mg kg^{-1} is correct, while mg/kg or ppm is not. Pay attention to these details in the literature you are reviewing.
Use bold font to indicate references to figures, tables, and equations in the text. This helps during the proofreading process. Reference to

REVIEW SAFETY FEATURES IN THE LAB (REIC 245)

Cubbies for bags and coats
Location of personal protective equipment (PPE)
Safety shower/eyewashes
Fume hoods
Exits out of room and out of building
Waste bottles and broken glass container(s)
Chemical/safety literature
- hazard.com/msds is a good start

LABORATORY SAFETY RULES

USE COMMON SENSE AT ALL TIMES!!!
No horseplay in lab
No unauthorized experimentation
Wear safety glasses/goggles—know when each is required
Use of correct gloves (when appropriate)
Knowledge of location and use of MSDS's
NO food, drink, or gum in lab
Do not leave fires unattended
Label all containers with contents, your name, your class, and date/semester
Report any accident or spill or unsafe condition