

Analytical Instrumental Laboratory

CHEM 314; Spring 2021

Behavior and Collaboration- Students are expected to conduct themselves professionally at all times. Disrespect of the classroom learning environment, instructors, and fellow students is not tolerated! Collaboration and working in small groups is a key component of classroom and lab time.

Attendance, Tardiness, and Late Work- Students are expected to attend class and not compromise the experience of other students. Makeup labs are not available for this course except for school-related travel. Work is not accepted late. This is to keep us all moving through the material efficiently.

Instructor-Initiated Withdrawals- Any time up to and including the final date to drop a course with a "W," the professor has the right to withdraw a student that "...has not participated substantially in the course."

Honor code and Academic integrity- Students are expected to conduct themselves in accordance with the UAF Honor code. The Chemistry Department policy states: *Any student caught cheating from the UAF*

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1. **Title-** Exciting or boring, be descriptive
2. **Purpose-** what are you trying to analyze and why?
3. **Background-**
 - a.



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6. Results- (1-3



- < 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 na.QRÁ€

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Tentative Schedule (version 1-9-2020)

Date		Monday Lecture	Monday Lab	Wednesday Lab
1-11	1	Introduction to Measurements (Ch 1)		
1-18	2			Noise and Error (Ch 5) & Student presentation
1-25	3	Interactions b/w light and matter (Ch 6)	Standard Addition	Standard Addition
2-1	4	Components of instruments (Ch 7) Atomic spectroscopy (Ch 8-11)	Standard Addition	Flame AA
2-8	5			