



CHEM 694
Spring 2015

Course Name: CHEM 694: Chemical Research Mentoring

Prerequisites: Graduate standing

Location:

Meeting Time: 0 Tw 260P4

Students will have a refined understanding of the research process that can be applied to their own research project.

Example Student Projects: Student project topics will vary based on the expertise of graduate students enrolled in CHEM 694 and vary each semester.

Investigation of toxic metals present in mine tailings as a function of particle size, which affects transportability, solubility, and bioaccessibility. This would involve drying soils, size separation using sieves and settling rate in water. Each size fraction could then be analyzed for elemental composition using bulk X-ray Fluorescence by preparing a pressed pellet.

Investigation of chemical moieties present in size fractionated aerosol particulate samples by acid digestion and subsequent analysis by Inductively Coupled Plasma-

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686 students), delivery of activity either based on instructor judgment or directed evaluations from undergraduates in CHEM 288, and on the basis of student self-evaluations. Additional assignment-specific rubrics are available on the website.

Course Policies:

Classroom Behavior and Late work - Students are expected to conduct themselves in a professional manner at all times. Disrespect of the classroom learning environment, instructors or mentees, and fellow students will not be tolerated! Late work is not accepted in an effort to keep the entire class moving through the projects efficiently. Continued attendance to class indicates each student agrees to the policies set forth in this syllabus.

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 will be assigned a course grade of F. The students' academic advisor will be notified of this failing grade and the student will not be allowed to drop the course.*

Disability Services- I will work with the Office of Disabilities Services (208 Whitaker Bldg, 474-5655) to provide reasonable accommodation to students with disabilities. It is the student's responsibility to make an appointment with me to discuss appropriate accommodations within the first two weeks of the first class meeting. A letter from disabilities services must be provided for discussion at that time.