Chem 4000/6000 Lab-Online Fall 2020
FUND OF CHEMICAL ANALYSIS

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Email: tahuja1@gsu.edu

Send email from your GSU email account only, and mention the course in the subject

Check your iCollege page on the daily bases.

Office Hours: TR 10am -12pm, iCollege-Collaboration- WebEx-Virtual office hours
Please email to set up an appointment

Lab Lecture Time: Recorded lecture videos will be available on the lab time every week. If you have any doubts for the lecture please email to set up the virtual office hours meetings on icollege and we can discuss that.

Lab Time: Monday Section: 1.00pm to 4.15 pm, Virtual
Wednesday Section: 1.00pm to 4.15 pm, Virtual

Text: GSU Lab manual (will be uploaded in first week). A course outline, schedule of activities, grading, etc., is included in the lab manual.

Course Description:

This lab course will be held entirely online. Videos, assignment, data etc will be uploaded on icollege on weekly basis. Students have to watch the lecturer videos to understand the concept, instrumentation and working of each experiment. Students have to analyze the data and write a report based on ACS format and submit to the instructor online via email. Once instructor graded the report, students have to resubmit the report after the correction needed.

Steps to follow:

- Watch videos of concept, instrumentation and working
- Acquire data
- Make tables, figures and analyze data
- Write lab report and submit as per date of submission

Grading/Requirements:

- Four papers will be written using real data obtained in each corresponding week. The papers will be returned with comments and students will be allowed to re-write, revise and re-submit the paper within one week from the date of paper returning.
- Due date will be announced in lecture videos.
- Students will be able to resubmit paper #1 twice and papers #2 once. There is no resubmission for paper #3 and #4. The highest score is counted for each corresponding paper.
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- Students are required to write each paper independently, analyzing their own data and discussing accordingly. IT IS NOT PERMITTED TO USE OTHER PEOPLE’S DATA/DISCUSSION IN THE PAPER WITHOUT MENTION. If that happens, it will be considered cheating and zero score will be given on this paper.
- A past-due penalty will be given, 2 pts off for each past-due day.
- Each paper counts 15% of the final course score (total 100 pts), including the paper writing and notebook check. The total lab score counts 60% of the final course score.

Lab Experiment Schedule: This lab course is divided into 4 units mentioned below. Assignments will be uploaded for each unit separately.

Unit 1: Error and statistical analysis;
Unit 2: Acid-base titration: standardization of prepared HCl and NaOH solution; determination of the acid mixture composition of HCl + HAc;
Unit 3: Titration of phosphoric acid w/ and w/o Mg²⁺; the effect of metal ion existence on acid titration (multiple-equilibrium);
Unit 4: EDTA standardization; metal-EDTA complex titration; determination of the metal ion mixture composition.

Chemistry Department Student Integrity Policy:
The Department of Chemistry follows the university policy on academic honesty published in the "Faculty Affairs Handbook" and the "On Campus: The Undergraduate Co-Curricular Affairs Handbook." All tests and quizzes taken and reports submitted must represent the student’s individual unaided effort. To receive or offer information during an examination will be considered cheating. Any suspected offenses may be referred to the Department Chair for appropriate action. Classes will never be canceled unless an official from the Chemistry Department gives the class personal notification. Don’t assume a note to be enough without checking with the Department office (404-413-5500, PSC 383).

The University requires that faculty members must, on a date after the mid-point of the course to be set by the Provost (or his designee): 1. Give a WF to all those students who are on their rolls but no longer taking the class 2. Report the last day the student attended or turned in an assignment. Students who are withdrawn may petition the Department Chair for reinstatement into their classes.
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