Metal Flavonolate Complexes
CHE 4175-008
Fall 2021
CHEMISTRY BUILDING 205

Instructor: Xiaozhen(Jenny) Han, Ph.D.
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Students Hours: M&T&W: 9 – 11 am

In addition to the posted office hours, feel free to stop by my office anytime to chat with me. I am generally moving in between my office and research lab (Chemistry 205), so you can also e-mail me to set up an appointment time outside of my posted office hours.

Masks (cloth face coverings) must be worn over the nose and mouth at all times in face-to-face class and appropriate physical distancing must be observed. Students not wearing a mask and/or not observing appropriate physical distancing will be asked to leave the class. All incidents of not wearing a mask and/or not observing appropriate physical distancing will be reported to the Office of Student Rights and Responsibilities. Students who are reported for multiple infractions of not wearing a mask and/or not observing appropriate physical distancing may be subject to disciplinary actions.


Course Description: Individual study and/or laboratory research.
This course is for 1-4 credits and repeatable. The course involves a mentored research experience for the duration of a semester (8 weeks) designed to develop research skills through participating in research and to develop some of the skills needed for professional success after graduation. Students are expected to prepare prior to each lab (literature and concepts), attend research hours (minimum of 6 hours per week per credit hour to conduct experiments), and report results (paper, presentation). Students have required academic components and deliverables: written work (daily notebook, research paper) and oral (presentation). These activities, inclusive of the lab expectations and academic components, average a minimum of 8 hours of work each week per credit hour.
Number of Credit Hours: 1 – 4 semester hours

Course Prerequisites and Corequisites: Prerequisite: Permission of instructor. Pass-Fail grading

Required Texts and Other Materials: Lab notebook (see me for guidelines)

Required Supplementary Reading: Handouts and journal articles will be provided as needed.

Program Learning Outcomes:
1. The student will perform qualitative/quantitative chemical analyses/syntheses using modern instrumentation.
2. The student will articulate scientific information through oral communication. (depending on instructor or project)
3. The student will articulate scientific information through written communication.
4. The student will demonstrate ability to integrate knowledge content, laboratory skill, critical thinking and problem solving, and communication skills via participation in research projects.

General Education Core Curriculum Objectives: There are no specific general education core curriculum objectives in this course. This course is not a general education core curriculum course.

Course Objective: The student should demonstrate their ability to conduct chemical research.

Student Learning Outcomes: Upon completion of this course, students will be able to:
   - Apply the chemistry knowledge obtained during the college career. (PLO 3, 6)
   - Analyze experimental results based upon trends in data. (PLO 5)
   - Practice the safe use/handling of chemicals and their proper storage. (PLO 3)

Course Requirements:
You will work in the lab ~6 hours per week for each hour of credit that you are enrolled. At the beginning of the semester, we will decide on a mutually-agreeable time for you to come to lab and work. We will also meet individually to discuss your results and plan your upcoming activities in the lab.

Attendance Policy:
If you cannot make it to work at your scheduled time, please let me know. We can arrange a mutually convenient time to “make-up” the lab work.
**Academic Integrity Policy:**
All students are urged to acquaint themselves with the University's codes, policies, and procedures involving academic misconduct, grievances, sexual and ethnic harassment, and discrimination based on disability. Copies of the SFA Policies and Procedures Manual can be obtained in print or online from the Office of Academic Affairs (http://www.sfasu.edu/upp/pap/academic_affairs.html).

**Semester Withdrawals:**
University calendar will be followed.

**Academic Disabilities Policy:**
Stephen F. Austin State University is committed to providing reasonable accommodations for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with me as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in the Human Services Bldg., Room 325, (936) 468-3004 or (936) 468-1004 (TDD).

I reserve the right to change any items contained in this syllabus. This includes, but is not limited to: course content, scheduled dates, grade cutoffs, and fraction(s) of final grade assigned to individual components of the course. If I need to make such changes, I will inform you of the changes in writing. *This syllabus in no way constitutes a legally-binding contract on my part.*

**General Policies:**
- You are expected to come ready to work in the lab at the times you have agreed to work. If you are not able to come, please contact me (phone or email) and let me know that you won’t be in. We will discuss making up the missed time if the need should arise.
- You should come and check in with me before beginning lab work. Please don’t carry out lab work while I am not around (this is for your safety).
- You are expected to follow all departmental safety rules while working in the lab.
  - Specifically, you are expected to wear approved safety goggles, proper shoes, and long trousers while in lab.
- All glassware and equipment in the lab is communal. Be courteous to your fellow labmates. If you need something, use it. After you are done, clean it up and return it to its proper place.
- I expect you to use departmental equipment responsibly. You will not be allowed to use departmental instruments on your own until you have been suitably trained (by me) and I feel confident that you are able to use the instrument safely. Please see me if you are unsure of how to perform a particular procedure or how to use equipment.
Lab notebooks

- Check with me (before buying anything) to find out what constitutes an acceptable lab notebook.
- All notebook records are to be kept in black ink.
- Keep meticulous experimental details in your lab notebook.
- Make sure you write down everything clearly in your lab notebook.
- Your notebook should be neat, legible, and easy-to-follow.
- Bring your notebook and any other data (e.g. spectra, etc.) you have collected when you come to meet with me to discuss your progress.
- Please provide me both hard copies & electronic copies of any spectra (IR and/or NMR) that you have collected over the semester.
- Please provide me with either carbon copies or photocopies of all pages of your lab notebook that you used to record your work in the lab over the semester.
- You will be required to write a short paper at the end of the semester. This paper will be a summary of the work you did and the results you obtained. This paper will be due NO LATER THAN 12:00 noon on Dec., 9th. Please submit both a hard copy and an electronic copy (email it to me or bring it on a flash drive).
- In addition, you will be required to make a short presentation to me and the other members of the group. All group members will make presentations on Dec. 6th. The time and place for the presentations will be determined at a later date in order to fit everyone’s schedule. Your presentation should be done using PowerPoint and should be 20-25 minutes in length.

Mental Health:

SFASU values students’ mental health and the role it plays in academic and overall student success. SFA provides a variety of resources to support students’ mental health and wellness. Many of these resources are free, and all of them are confidential.

On-campus Resources:
SFASU Counseling Services
www.sfasu.edu/counselingservices
3rd Floor Rusk Building: 936-468-2401

SFASU Human Services Counseling Clinic
www.sfasu.edu/humanservices/139.asp
Human Services Room 202: 936-468-1041

Crisis Resources:
Burke 24-hour crisis line 1(800) 392-8343
Suicide Prevention Lifeline 1(800) 273-TALK (8255)
Crisis Text Line: Text HELLO to 741-741

COVID-19 INFORMATION
Please visit https://www.sfasu.edu/covid19 for detailed information about Covid-19 protocols on SFA campus.