CHE 4176-200 Fall I
DNA unusual motifs and Phytochemicals (Aug 24-Oct 14)

Instructor: Bidisha Sengupta, Ph.D.
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Student Hours: Minimum 6 hours/week

Course Description: Individual hands-on and computational research.

Number of Credit Hours: 1

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 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.

**Justification of Hours**
You will be able to interpret the scientific articles in order to design and perform experiments. Hence around 6 hours in the lab will justify your time requirement. During the time of submitting the report and presentation, you will have to spend extra time in preparing for submission and presentation.

**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](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.
You will be assigned a drawer in the lab for you to store your lab notebook and other personal items.
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 (October 14). 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 October 14. Please submit both a hard copy and an electronic copy (email it to me or bring it on a flashdrive).**

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. The time, date 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.

**FACE MASKS, COVID-19, ETC.:**

Masks (cloth face coverings) must be worn over the nose and mouth at all times in this 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. **A student running a fever should attend class via Zoom and should NOT attend a face to face class.**


WHITHELD GRADES SEMESTER GRADES POLICY (A-54):

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated
course for the purpose of computing the grade point average. The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

**STUDENTS WITH DISABILITIES:**
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.