CHEM 5381_009
Supervised Instruction of Lab Course
Fall 2023

Instructor | Dr. 'Tayo Odunuga
Department | Chemistry and Biochemistry
Email | odunugao0@sfasu.edu
Phone | 936-468-6468
Office | Room 104, Bush Mathematical Sciences Building
Class Time/Location | Monday: 9:00 – 10:50 a.m., Room 126, Bush Mathematical Sciences Building
Student Office Hours | M – F, 11:00 – 12:00 p.m.

COURSE DESCRIPTION: Teaching experience in undergraduate chemistry laboratory, including maintenance, laboratory preparation, grading, and assistance of students in laboratory under the direct supervision of a faculty mentor. Topics also include preparations for a career in STEM-related fields. Each class will end with review of fundamental concepts and practice exercises in basic calculations in general chemistry, for example, stoichiometry, dimensional analysis, sig figs etc.

TEXT AND MATERIALS: There is no required textbook for this course. The instructor will recommend open-source materials in class.

TIME JUSTIFICATION: The course involves 2 hours of lecture and 5 hours of laboratory time (part of Graduate Teaching Assistantship obligations). In addition, students will be required to spend 2 hours on assignments outside of class. This course is a requirement for graduate teaching assistantship but does not count toward basic requirements for the degree. Note: 1 credit hour = 3 hours of lab time.

NUMBER OF CREDIT HOURS: 3 semester hours

COURSE OBJECTIVES: The student should demonstrate the teacher’s role in a laboratory setting.

PROGRAM LEARNING OBJECTIVES (MSNAS)

PLO 1. Communication: The student will demonstrate effective oral and written communication pertinent to the specific STEM-related programs of study.

PLO 2. Value Added: The student demonstrates preparation for employment or career advancement within a STEM or STEM-related field.

STUDENT LEARNING OUTCOMES: Upon completion of this course, students will be able to:
• work independently, responsibly, and efficiently to solve problems occurring in a laboratory setting.
• demonstrate clear oral and written communication skills.
• demonstrate an ability to prepare and present laboratory lecture.
• perform routine laboratory procedures safely and efficiently.
• explain fundamental principles of chemistry to freshman students.
• demonstrate an ability to assess student progress and develop assessment tools.
• demonstrate safety practices regarding laboratory and chemical storage.

FORMAT OF DELIVERY: The course will be taught face-to-face.
**GRADING POLICY:**

To get a Pass grade, a student must participate and complete the following to the satisfaction of the instructor:

a. Attend and actively participate in class discussions.
b. Complete all assignments related to the course.
c. Attend seminar(s) selected by instructor.
d. Complete all reading assignments and related discussion obligations.
e. Submit an outline of research proposal.
f. Obtain satisfactory performance in all GTA obligations – as assessed by faculty mentor.

**Method of Evaluation/Assessment** – The final grade will be based upon the number of points obtained in the following:

<table>
<thead>
<tr>
<th>Item</th>
<th>Value Points</th>
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<tbody>
<tr>
<td>Attendance and class participation</td>
<td>40</td>
</tr>
<tr>
<td>Completion of all assignments and course obligations</td>
<td>30</td>
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<tr>
<td>Satisfactory performance in GTA obligations</td>
<td>30</td>
</tr>
<tr>
<td><strong>TOTAL PTS</strong></td>
<td><strong>100</strong></td>
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</tbody>
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*Overall Grading scale - Pass ≥ 85%; Fail < 85%*

**COURSE CALENDAR**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topics and Activities</th>
<th>% Time</th>
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</thead>
<tbody>
<tr>
<td>Aug. 28</td>
<td>-Introductions</td>
<td>5</td>
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<tr>
<td></td>
<td>-Review of Master program</td>
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<td></td>
<td>-Expectations for GTAs</td>
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<td></td>
<td>-Timeline map – registration to graduation</td>
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<tr>
<td>Sept. 04</td>
<td>Uniqueness of the American educational system and how to integrate/adapt into the culture</td>
<td>5</td>
</tr>
<tr>
<td>Sept. 11</td>
<td>Safety, Ethics, and Academic Integrity</td>
<td>5</td>
</tr>
<tr>
<td>Sept. 18</td>
<td>Resources available at SFA – library, CTL, Career Services etc.</td>
<td>5</td>
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<tr>
<td>Sept. 25</td>
<td>-Writing effective exam/quiz questions – assignment given for next week</td>
<td>5</td>
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<tr>
<td></td>
<td>-Creating effective assessments and grading fairly</td>
<td></td>
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<tr>
<td>Oct. 02</td>
<td>Recitations and Lab Sessions – suggestions for Teaching Assistants – assignment given</td>
<td>5</td>
</tr>
<tr>
<td>Oct. 09</td>
<td>Practice – running a lab or lecture recitation</td>
<td>5</td>
</tr>
<tr>
<td>Oct. 16</td>
<td>Practice – running a lab or lecture recitation</td>
<td>10</td>
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<tr>
<td>Oct. 23</td>
<td>Practice – running a lab or lecture recitation</td>
<td>10</td>
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<tr>
<td>Oct. 30</td>
<td>Practice – running a lab or lecture recitation</td>
<td>10</td>
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<tr>
<td>Nov. 06</td>
<td>Practice – running a lab or lecture recitation</td>
<td>10</td>
</tr>
<tr>
<td>Nov. 13</td>
<td>Practice – running a lab or lecture recitation</td>
<td>10</td>
</tr>
<tr>
<td>Nov. 27</td>
<td>Preparing for Thesis Research</td>
<td>10</td>
</tr>
<tr>
<td>Dec. 04</td>
<td>Preparing for Thesis Research</td>
<td>5</td>
</tr>
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</table>
**ATTENDANCE POLICY:**
Attendance of class is mandatory. Three (3) or more absences will result in an ‘F’ for the course. Absences may be assigned to anyone that disrupts class, sleeps in class, or consistently comes in late or leaves early without prior consultation with the instructor.

**CLASSROOM BEHAVIOR POLICY:**
- Wearing a face mask in class is strongly encouraged.
- The student code of conduct policy is located at, [http://www.sfasu.edu/policies/student-code-of-conduct-10.4.pdf](http://www.sfasu.edu/policies/student-code-of-conduct-10.4.pdf)
- Professional behavior is expected at all times and includes coming to class prepared and on time.
- Contribute to class discussions and group assignments.
- Absences may be assigned to anyone who disrupts class. Read Attendance Policy Section for how this can affect grades.
- Silence phones and put away unless we are using them as a part of class.
- Be courteous and respectful of other students and instructor.
- Students who violate these rules will be asked to leave. Repeat offenders will be subject to disciplinary action in accordance with University policies as described in the Code of Student Conduct.

The Code of Student Conduct and Academic Integrity outlines the prohibited conduct by any student enrolled in a course at SFA. It is the responsibility of all members of all faculty, staff, and students to adhere to and uphold this policy.

Articles IV, VI, and VII of the new Code of Student Conduct and Academic Integrity outline the violations and procedures concerning academic conduct, including cheating, plagiarism, collusion, and misrepresentation. Cheating includes, but is not limited to: (1) Copying from the test paper (or other assignment) of another student, (2) Possession and/or use during a test of materials that are not authorized by the person giving the test, (3) Using, obtaining, or attempting to obtain by any means the whole or any part of a non-administered test, test key, homework solution, or computer program, or using a test that has been administered in prior classes or semesters without permission of the Faculty member, (4) Substituting for another person, or permitting another person to substitute for one’s self, to take a test, (5) Falsifying research data, laboratory reports, and/or other records or academic work offered for credit, (6) Using any sort of unauthorized resources or technology in completion of educational activities.

Plagiarism is the appropriation of material that is attributable in whole or in part to another source or the use of one’s own previous work in another context without citing that it was used previously, without any indication of the original source, including words, ideas, illustrations, structure, computer code, and other expression or media, and presenting that material as one’s own academic work being offered for credit or in conjunction with a program course or degree requirements.

Collusion is the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any provision of the rules on academic dishonesty, including disclosing and/or distributing the contents of an exam.
Misrepresentation is providing false grades or résumés; providing false or misleading information in an effort to receive a postponement or an extension on a test, quiz, or other assignment for the purpose of obtaining an academic or financial benefit for oneself or another individual or to injure another student academically or financially.

**Withheld Grades Semester Grades Policy (5.5)**

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 coursework 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 to compute the grade point average. For additional information, go to https://www.sfasu.edu/policies/course-grades-5.5.pdf.

**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 promptly may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

**Student Wellness and Well-Being**

SFA values students’ overall well-being, mental health and the role it plays in academic and overall student success. Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, emotional well-being, alcohol and other drugs, identities, finances, etc.

If you are experiencing concerns, seeking help, 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:**

**The Dean of Students Office** (Rusk Building, 3rd floor lobby)

- www.sfasu.edu/deanofstudents
- 936.468.7249
dos@sfasu.edu

**SFA Human Services Counseling Clinic** Human Services, Room 202

- www.sfasu.edu/human-services/139.asp
- 936.468.1041

**The Health and Wellness Hub** “The Hub”

Location: corner of E. College and Raguet St.

To support the health and well-being of every Lumberjack, the Health and Wellness Hub offers comprehensive services that treat the whole person – mind, body and spirit. Services include:

- Health Services
• Counseling Services
• Student Outreach and Support
• Food Pantry
• Wellness Coaching
• Alcohol and Other Drug Education

www.sfasu.edu/thehub
936.468.4008
thehub@sfasu.edu

Crisis Resources:
• Burke 24-hour crisis line: 1.800.392.8343
• National Suicide Crisis Prevention: 9-8-8
• Suicide Prevention Lifeline: 1.800.273.TALK (8255)
• johCrisis Text Line: Text HELLO to 741-741

The professor reserves the right to alter the course calendar, grading policy, and dates/times of exam of this course due to weather, university events, improved student learning, etc. Students will be notified in class and/or via email concerning any changes.