Class Syllabus  
Fall II 2018  
CHE 275  
Introduction to Research

Classroom: C-207  
Instructor: Matibur Zamadar, Ph.D.  
Class Times: TBA  
Office: M 112  
Email: zamadarmr@sfasu.edu  
You may also send me a message on Facebook.  
Office Hours: No formal office hours. We will consult on research progress frequently.  
Phone: (936) 468—2243

Materials Required:
1. A 1/2-inch binder – for assignments given in class  
2. Access to puncher/perforator and printing services  
3. Text resources are available online or provided by the instructor  
4. A working email address

Grading method:
1. Attendance: mandatory – 50%. The Instructor will take attendance during each class. Only two absences allowed, excused or unexcused. Additional absences will be penalized as deemed fit by the Instructor.  
2. Assignments 1 to 12 @ 2% each – 24%  
3. Complete Proposal signed by advisor and student, and submitted on D2L by deadline – 10%  
4. Skills Narrative signed by advisor and student, and submitted on D2L by deadline – 8%  
5. Survey submitted by student on D2L by deadline – 8%  
6. ≥ 90% = pass; < 90% = fail  

Notes on assignments
All assignments must be typed unless otherwise stated by the instructor. The typing should be single-spaced in Times New Roman font size 12 and 1-inch margin all-round. Submit all assignments in a 1/2-inch binder.  

Notes on Reference Format:  
<table>
<thead>
<tr>
<th>Topic</th>
<th>Date</th>
<th>Instructor or Presenter</th>
<th>Notes/Assignments</th>
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| Research at SFA Chemistry and Biochemistry Department     | August 31  | Janusa                  | - Students assigned to Research Advisors  
- Assignment #1: Meet with your research professor to discuss project(s). Submit a project topic and a 1-paragraph narrative why you want to work on that topic in the next class |
| Safety Training                                           | September 7| Franks                  | - Students submit assignment #1  
- Assignment #2: Meet with advisor for further discussion/action on the project and submit a 1-paragraph narrative of that meeting, signed by both, in the next class |
| SFA Library Resources – how to do a literature search     | September 14| Library Staff           | - Students submit assignment #2  
- Assignment #3: Prepare a typed 1-page summary of review of at least 5 current (< 10 years) articles relevant to their proposed research. List cited references on a second page following the guidelines above. Assignment should be signed by both pages by advisor and student and brought to next class |
| Library resources – doing the actual literature search    | September 21| Library Staff           | - Students submit assignment #3  
- Assignment #4: Students prepare a typed 1-page summary of review of at least 5 additional current (< 10 years) articles relevant to their proposed research. List cited references on a second page following the guidelines above. Assignment should be signed by both pages by advisor and student and brought to next class |
| Writing a good proposal                                   | September 28| Odunuga                 | - Students submit assignment #4  
- Assignment #5: Students write ‘Synopsis/Literature Review’ portions of their proposal. Assignment should be typed, signed by both advisor and student, and brought to next class. Give a copy of the assignment to your advisor for correction. |
| Ethics in Research                                        | October 5  | Odunuga                 | - Students submit assignment #5  
- Assignment #6: Students make changes to ‘Synopsis/Literature Review’ as corrected by advisor. Students bring copies containing advisor’s comments and corrected version (signed by both) to next class. |
| Maintaining a good laboratory notebook                    | October 12 | Odunuga                 | - Students submit assignment #6  
- Assignment #7: Students write ‘Methodology and Objectives’ portions of their proposal. Assignment should be typed, signed by both advisor and student, and brought to next class. Give a copy of the assignment to your advisor for correction. |
| Use of Excel – General operation, Graphs, charts etc.    | October 19 | Fry                     | - Students submit assignment #7  
- Assignment #8: Students make changes to ‘Methodology and Objectives’ as corrected by advisor. Students bring copies containing advisor’s comments and corrected version (signed by both) to next class. |
| Simple Statistical Analysis using Excel                   | October 26 |                        | - Students submit assignment #8  
- Assignment #9: Students write ‘Synopsis and References (minimum 6)’ portions of their proposal. Assignment should be typed, signed by both advisor and student, and brought to next class. Give a copy of the assignment to your advisor for correction. |
| Opportunities in the department and after graduation (Welch, patent course, SURE etc.) Discuss Welch application | November 2 | Harris                  | - Students submit assignment #9  
- Assignment #10: Students write a complete proposal using approved departmental form and format. Assignment should be typed, signed by both advisor and student, and brought to next class. Give a copy of the assignment to your advisor for correction. |
| Fundamentals of Scientific Writing (http://acswebinars.org/sainani) | November 9 | Odunuga                 | - Students submit assignment #10  
- Assignment #11: Students make changes to complete proposal as corrected by advisor. Students bring copies containing advisor’s comments and corrected versions of (1) Synopsis and References and (2) complete proposal. Both should be signed by advisor and student. |
| Presentations by former student(s)                       | November 16|                        | - Students submit assignment #11  
- Assignment #12: Students write a 1-page narrative, minimum 500 words, of the research skills and experience they have learned in their advisor’s laboratory. Assignment should be typed, signed by both advisor and student, and brought to next class. |
| Practical aspects of giving a PowerPoint presentation     | November 30| Odunuga                 | - Students submit assignment #12  
- Assignment #13: Students make further changes to complete proposal and ‘Skills’ assignments as directed by advisor. |
| Final class                                               | December 7 | Odunuga                 | - Students submit the following in assigned Drop box on D2L by 11 a.m.  
1. Complete Proposal signed by advisor and student  
2. ‘Skills’ narrative signed by advisor and student  
3. Survey  
If applicable, a completed and signed Welch Proposal to Carrie Stover |

Note: This syllabus may be subject to changes at the discretion of the Instructor. The Instructor will duly notify students of any changes to the syllabus.

Dr. Matibur Zamadar, August 24, 2018