492 Senior Seminar (1)  A weekly seminar to be taken during the calendar year in which a student is to graduate. Oral and written projects will be required as well as an exit examination. Seminar, one hour per week. Prerequisite: CHEM 341 and senior status. This course is required for the BA or BS in Chemistry and the BS in Biochemistry. You should be planning to graduate in the 2021 calendar year.

Text: There is no required text for this course.

Technology Requirements: -A computer with reliable internet access, microphone, speakers, and webcam is required as is a method to scan in multiple pages of your handwritten work into a single pdf document that can be quickly uploaded to OAKS such as AdobeScan. This link is a tutorial on how to scan your work: http://tlt.cofc.edu/2020/03/24/tech-tip-tuesday-how-to-scan-handwritten-drawn-work-to-a-pdf-to-submit-in-oaks/.

COVID-19 Considerations The Cougar Pledge remains in effect (https://go.cofc.edu/cougarpledge). If you need to take the course remotely for the entire semester, please notify the instructor no later than noon Wednesday January 13. Should you need to be absent due to a COVID isolation/quarantine or other illness please notify the instructor at least three hours prior to your scheduled class time in order to be sent the Zoom link to the class. Attendance and full participation will still be expected.

Learning Outcomes
1. To illustrate how scientific knowledge is constructed by exploring the chemical literature.
2. To develop oral presentation skills.
3. To apply written communication skills to chemical topics.
4. To reflect about the contributions of chemists to society.
5. To assess your learning at the end of the college career.
<table>
<thead>
<tr>
<th>Grading Scheme</th>
<th>Grading Scale</th>
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<tbody>
<tr>
<td>Participation: 25%</td>
<td>92-100 A</td>
</tr>
<tr>
<td>Written Assignments: 20%</td>
<td>90-92 A-</td>
</tr>
<tr>
<td>Senior Survey: 10%</td>
<td>85-90 B+</td>
</tr>
<tr>
<td>Oral Project: 20%</td>
<td>80-85 B</td>
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<tr>
<td>Major Field Test: 20%</td>
<td>78-80 B-</td>
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<tr>
<td>Final Reflection: 5%</td>
<td>76-78 C+</td>
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<td>72-76 C</td>
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<td>70-72 D</td>
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**Tentative Class Schedule**

- Jan 14: First Meeting
- Jan 21: “Race to Catch a Buckyball”
- Jan 28: Planning Your Career: Part 1
- Feb 4: Planning Your Career Part II
- Feb 11: “Naturally Obsessed”
- Feb 18: Elevator Speeches
- Feb 25: ETS Proficiency Test
- Mar 4: Reading Day No Classes
- Mar 11: No class in lieu of MFT
- Mar 18: Student Seminars
- Mar 25: Student Seminars
- Apr 1: Student Seminars
- Apr 8: Student Seminars
- Apr 15: Senior Survey
- Apr 21 (Wednesday): Final Reflection

**Participation** is a most important part of the course. Therefore, you are expected to attend each class period. Make every effort to attend every class and be on time. An excused absence may be granted for planned events such as college-related events (e.g., presentations at professional meetings) or interviews for graduate or professional schools. These must be requested at least one week prior to the absence. Excuses for emergency absences must be requested within 24 hours of the missed class and will be granted only for severe medical or family emergencies. Each unexcused absence will result in 5 points being taken off your final average.

**Oral Presentations** The ability to speak in front of an audience and to give a coherent presentation is a vital skill for a scientist, regardless of your career choice. Your major oral presentation will be on your selected Nobel laureate or Priestley Medal recipient or on an underrepresented minority chemist. For a Physics or Medicine & Physiology recipient the science must be chemically or biochemically related (e.g. no talks on black holes). You must submit your topic no later than January 28 using the Google doc [link](https://docs.google.com/spreadsheets/d/1IkNw1sqP3cBcWt05pd1klpXumXkOnov3Ouf9qZhPnJ/edit?usp=sharing).

Your presentation must be 15-20 minutes in length. Make sure that your presentation is within this time frame. You will be penalized for having a presentation that is either too short or too long. You should include as part of your presentation some of the life story of the scientist. The main body of your presentation should be on the science behind or her/his award. You should address the significance of the work (e.g., the effect it has had on science). Be sure to state why you picked the person that you did and mention...
how your perception of that person changed as a result of your study. Please check the
guidelines for oral presentations. A copy of the evaluation sheet can be viewed on-line.
Each person is to introduce one other student when that student makes their
presentation. You should secure such background information as hometown, high
school, what degree they are seeking, what their plans are after graduation, and any
honors they have earned. A schedule for student presentations will be available after
class rolls are finalized when drop/add is completed. Email Failure to present your oral
project will result in the grade of "F" for the course.

The Major Field Test will be administered. The Major Field test is a standardized test
prepared by the Educational Testing Service. This will be taken on-line during one of
several opportunities that will be announced. Failure to take the Major Field Test will
result in the grade of "F" for the course.

Senior Survey You are required to complete a Senior Survey about your plans after
graduation. This survey will also give you a chance to provide feedback on your
perceptions of the chemistry & biochemistry program. Failure to submit the Senior
Survey will result in the grade of “F” for the course.

Final Reflection Details will be announced later. Failure to submit the final reflection
will result in a grade of "F" for the course.

OFFICE HOURS Times for office hours are posted in the header on page 1. During the first three weeks they will be held via Zoom. Should we return to campus they will be held in my office.

EMAIL This is the best way to contact me. Please start the subject line of all emails to
me with “CHEM 492” and then add any further descriptor that you wish. Except on
weekends, if you do not receive a response from me within 24 hours that means that
most likely I did not receive your e-mail or that it got lost in the daily tsunami of emails,
so please try again. Weekend emails may not be answered until Monday. Email via your
CofC-issued email account is considered an official method for communication at the
College of Charleston. Students are expected to check their College of Charleston
official email on a daily basis. Certain communications may be time-critical. “I didn’t
check my email”, error in forwarding email, or email returned to the College with
“Mailbox Full” or “User Unknown” are not acceptable excuses for missing official
College communications via email.

OAKS OAKS is the Learning Management System used by the College of
Charleston. OAKS, including Gradebook, will be used for this course throughout the
semester to provide the syllabus and class materials and grades for each assignment,
which will be regularly posted. It is accessed via mycofc.edu. You should check the
“News” section at least once between every class meeting.
HONOR CODE AND ACADEMIC INTEGRITY
Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when suspected, are investigated. Each incident will be examined to determine the degree of deception involved.

Incidents where the instructor determines the student's actions are related more to misunderstanding and confusion will be handled by the instructor. The instructor designs an intervention or assigns a grade reduction to help prevent the student from repeating the error. The response is recorded on a form and signed both by the instructor and the student. It is forwarded to the Office of the Dean of Students and placed in the student's file.

Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XXF in the course, indicating failure of the course due to academic dishonesty. This status indicator will appear on the student's transcript for two years after which the student may petition for the XX to be expunged. The F is permanent.

Students can find the complete Honor Code and all related processes in the Student Handbook at: http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php

RECORDING OF CLASSES (via ZOOM) Class sessions will be recorded via both voice and video recording. By attending and remaining in this class, the student consents to being recorded. Recorded class sessions are for instructional use only and may not be shared with anyone who is not enrolled in the class.

INCLEMENT WEATHER PANDEMIC, OR SUBSTANTIAL INTERRUPTION OF INSTRUCTION If in-person classes are suspended, a plan for a change in modality to ensure the continuity of learning will be announced.

FACEBOOK The Department of Chemistry and Biochemistry has a Facebook page. It is used to announce opportunities for students (https://www.facebook.com/#!/CofC.Chemistry).

TWITTER The School of Sciences Mathematics can be followed @CofCSSM.