

## Fall 2022 Chemistry 491 Senior Seminar Section 3 Preliminary Syllabus

Wednesdays 9:00 AM -12:00 PM

Professor Gene S. Hall, Chemistry 288

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Mechanics of a PowerPoint seminar: Wednesday, September 2022, Date to be determined. Professor Hall, 10:00 AM.

### Course Objectives:

- To be comfortable and confident in public speaking,
- To produce informative seminars,
- To use your communication skills effectively,
- To use modern-day electronic media to gather information for a seminar,
- To use software and hardware effectively to produce fantastic seminars.
- To provide after graduation resources for life after Rutgers.

### Course Requirements:

Produce one 10-minute seminar on any topic of your choice such as your interests, and high school attended. What is your favorite element (except C, N, H, O), and favorite compound (molecular weight greater than 50)? Include physical and chemical properties and for the compound, use a drawing program to draw the ball and stick model. Include chem abstract service (CAS) number of the chemical compound. Why did you choose these?

Produce one 20-minute scientific chemistry/biochemistry seminar starting date October 2022 date to be determined.

Must include: student drawn chemical structures, equations, student drawn instrumentation, and references. Standard slide format of Title, Outline, Introduction, etc. The dress code for the 20-minute seminar should be in accordance with what you would wear to a job interview.

Attend two professional seminars (colloquia) (50+ minutes) with at least one being on chemistry/biochemistry or any chemistry-related subject. See <https://ruevents.rutgers.edu/events/> calendar of events to find a seminar at Rutgers. Seminars do not have to be at Rutgers.

Submit two one-page summary reports of the above-attended seminars.

### **Attendance:**

Mandatory and be on time. Late is 2 minutes.

One excused absence.

More than one unexcused absence points will be deducted, and one letter grade reduction.

One excused tardy (late).

More than one unexcused lateness points deducted.

### **Course Evaluation and grading.**

Students will evaluate anonymously each other on the two student presentations, 50% of grade. The student reports of attended seminars (two) will count as 50% of your grade.

### **Seminar PowerPoint slides.**

1. Title, your name, first and family name, date
2. Abstract
3. Have an outline of what you will discuss
4. Background information
5. Main part of your seminar
6. Continue main part
7. Continue main part
8. Conclusion
9. References

Please note that you are not limited to nine slides. This is just an example.

Example of refereed journal article citing with authors, title, and journal reference and a book reference. Must be in the format below.

#### V. References:

1. Jones MD and Cabo N (**authors**), Trace element analysis of US Cents. (**full title of the article**). J Agric Food Chem (**journal title**) 47:709–719 (1999) (**volume, pages, and year**).
2. Environmental Analytical Chemistry, eds. F. W. Fifield and P. J. Haines, Blackwell Science, 2000, 2nd edn. (A book reference format).

Fall 2022 Chemistry Seminar 491 Attended Seminar Reports

Limit to one short page summary for each seminar report.

Use the following template to report on the two seminars (50+ minutes, colloquium) that you attended.

Fall 2022 Chemistry Seminar 491 Attended Seminar Reports

Date

First Name, Last Name, Department of Chemistry and Chemical Biology (your department major), Rutgers, The State University of New Jersey, New Brunswick, NJ 08903

On Date I attended the seminar Title presented by Name, affiliation. The location of the seminar was \_\_\_\_\_ and it lasted \_\_\_\_\_ minutes. The major theme of the seminar was \_\_\_\_\_. List any instruments, chemicals, or procedures presented in the seminar. What did you learn from the seminar (colloquium)?

Upload your report to Canvas using file name: 2022 Fall Chem 491 Fname Lanme Summary Seminars.pdf only pdf file format. The report is due by Wednesday, December 14, 2022.