

## Requirements for Final Research Presentations in Chemistry Lab

### Overview

You will do a five- to ten-minute individual presentation on a topic in science or science ethics. Pick a specific subject area that interests you, perhaps one oriented to your scientific or career interests. The topic does not need to be related to the material covered in class.

Your chemistry laboratory syllabus has specific due dates for the research presentation. You are encouraged to complete and submit each portion of the assignment **before** the due date. You will get priority if you have submitted first. Bonus points may also be awarded (see rubric).

<u>Due Date</u>	<u>Points</u>	<u>Assignment</u>
Week 4*	5**	Research topic must be agreed with the instructor.
Week 8*	5**	List of at least 3 acceptable references due to instructor.
Week 12/13*	5**	Final presentation slides due to instructor in .pdf or Powerpoint format. (Note that instructors may specify different formats.)
Week 14/15*	100	Present your topic to the class and answer questions
Week 14/15*	5**	Attend, ask questions, and participate at all student presentations for your class.

\*See syllabus for dates. \*\* Zero points will be awarded unless you deliver your presentation to the class. The recommendation is that you schedule and deliver your presentation to the class before the final due date in case you miss that class.

### Goal for Research Presentation

Explain the main claim from a scientific paper that has been published within the last five years while meeting all the requirements as explained in this document.

### Topic Requirements

- 1) Do not select banned topics listed in the research presentation rubric. Even if there are no banned topics, your instructor may choose to disallow a topic for lack of science research.
- 2) Read, reference/cite, present, and explain the main claim from the primary literature on a scientific topic. For ethics, cite and present the scientific data that inform the ethical choices.
- 3) Only one student may present on each subject area. You may submit presentation topics to the instructor well before the Week 4 deadline.

### Reference/Citation/Source Requirements

Cite and use at least 3 different sources in your presentation. The three sources must have been published within the last 5 years and must include one journal article, one news/review article, and one other source. References not meeting the minimum criterion will receive 0 points. Some possible journals include Science, Nature, Journal of Organic Chemistry, Journal of Chemical Education, Biomacromolecules, Cell Research, Analytical Chemistry, Advances in Enzyme Regulation, Reviews of Geophysics, Algal Research, Analytica Chimica Acta, Dalton Transactions, and Chemical Science. Some possible news articles may come from Chemical and Engineering News, Science News, as well as online sources. Possible review articles may come from Scientific American, journals, or other sources. The research you cite can be available online, such as in an online journal, or from the library. *Notes: Preliminary science may have errors and incorrect conclusions. Experiments need to be repeated and evaluated by other labs before results come to be scientifically accepted.*

You must reference sources from which you substantially use information for your presentation, including ideas, direct quotes, figures, charts, and videos. The format of your references must

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be clear so that the instructor can determine which material came from a particular source. You may follow guideline for references, such as MLA.

Your explanation of the main idea of a scientific paper must NOT be referenced. This portion must be your own work. (The scientific paper, however, should be referenced.)

### **Presentation Requirements**

Slides must cite all sources that were submitted on Week 8. (You may use and cite additional references.) Slides will be graded based on content, organization, interest, and clarity.

Presentation slots are determined by assignment. Your presentation will be also be graded for presentation skills, answering questions, and timing. Be prepared to answer questions about your presentation.

You may present from electronic slides, posters, or overheads. Check that your materials work in the classroom before the day of your presentation.

### **Questions**

Be prepared to answer two quality questions about your presentation.

Students are required to ask meaningful questions of other students during presentations. (Failure to do so results in a loss of the class/individual points.) The instructor may disallow trivial questions such as, "What was the color of the Sun on slide 2?" Questions should be based on content or application.

### **Attendance and Participation Requirements**

- All students must attend all presentations for the class to act as the audience.
- The instructor (or a selected student) will introduce each presenter and topic.
- The audience applauds presenters after they are introduced, after they have finished presenting, and after they have finished answering questions.
- Audience members give presenters the courtesy of their complete attention.
- Audience asks a minimum of 2 questions per presentation.

### **Plagiarism**

Any portion of your presentation that appears in another source is plagiarism unless that source is acknowledged by a reference. You are encouraged to reference sources from which you borrow information. If the information in your presentation can be found on a website or is identified as plagiarism, you will receive 0 points for this assignment.

### **Grading/Overall**

The assignment has more than 100 points (see rubric), so there are bonus points for completing assignments as specified and by/before the due dates. Should you not deliver your presentation to the class for any reason, you will receive a 0 grade for this assignment. No bonus points are awarded unless you deliver your presentation. The departmental guidance is that your research presentation counts as 15% of your laboratory grade, so a zero grade results in a maximum score of 85% for the remainder of lab. Also, your maximum grade for lab is 100%, so this assignment will not increase your score beyond 100% for the lab class.