

## Oral Presentation CHEM A493 Fall 2003

**Course Goal:** To strengthen oral and writing skills in technical communication. A secondary objective is to practice retrieving data from chemical literature.

**Requirements:** Students will attend Chemistry Seminar (CHEM A496) for the full semester, give a 25 min. talk and submit a research paper on his/her research or on a literature topic. Each student will be assigned an advisor by the course instructor who will approve the topic and coordinate a second reader for the research paper (if giving a research talk on work done at Loyola the student's advisor will be their research advisor). The advisor will also hear a practice talk at least one day before the scheduled seminar.

**Guidelines for Preparing Your Seminar:** The seminar topic should fundamentally focus on research in the field of chemistry and should be 25 min. in length with 5 minutes reserved for questions. The first 5 minutes of the talk should be an introduction of the background and/or practical effects of the research aimed at the level of freshmen and neophytes in the audience. Ten percent of the grade for the talk will be based on submitting a rough draft in a timely manner. All students must practice the talk for a faculty member at least one day in advance of the seminar.

The seminar should include two or more of the following:

1. Chemical structures, formulas and/or an equation
2. Reaction conditions, structures of product(s) and reactant(s) and mechanistic details if possible.
3. A discussion of the pharmacologic basis of a medicinal effect and the structural, conformational or stereochemical details if available.
4. A discussion, with figures, explaining the theory behind at least one of the techniques used in the research.
5. A discussion, with figures, explaining the theory behind a mathematical model used in the research
6. A discussion, with figures, of the implementation of an analytical or preparatory technique.

**Grading:** The final grade will be based on the paper, oral presentation and attendance. Your grade will be determined using the following weighting:

Rough draft of paper	20%	
Final paper	40%	
Oral presentation	40%	(4% based on timely submission of rough draft and practice seminar)

Attendance at all seminars is mandatory. Each absence will reduce the final grade in the course by half a letter grade.