**Scientific Research Communications (RSCH 361/ ENGR 361)**

**Professor: Dr. Maryam Qudrat**

**Research Report**

Write an 8-page technical report following the organizational guidelines either of the American Chemical

Society (ACS) or the American Psychological Association (APA).

ACS guideline:

https://www.acs.org/content/dam/acsorg/about/governance/committees/training/acsapprove

d/degreeprogram/preparing-a-research-report.pdf

APA guideline: https://owl.english.purdue.edu/owl/resource/560/01/

**Your research report should include the following sections: Abstract, Introduction, Methods, Results, Discussion, Conclusion, References, and Figures.**

You may choose to write about work you have done in your research lab or in a teaching lab.

This may include a report you have already prepared. Alternatively, you may choose to use

experimental data published in the literature as the information source of your report; the

article used for the Critical Review (assignment #3), however, is not eligible for this

assignment.

You will need to specify what data source you plan to use for the report. Write a brief description (~150 words) and reference work if appropriate, submit an electronic copy. If you plan to use published data from the literature, attach copy of the publication containing the data you plan to use. Be careful to

write the report in your own words; you may use data but nothing else from the published

paper.

You must include references of at least six publications relative to the subject of the report.

These would normally include an original publication of the methods being used as well as

other references to the problem being studied. At least four of the references should cite

original research literature.

The report should be pitched to a reader who has a good science background and is

somewhat knowledgeable about the topic on which you’re writing (not an expert in the field).

The length of the final report should be about 2000 words. You will lose credit if your report is

less than 1700 words or more than 2500 words.

Note: This technical report will be the data source for the poster assignment.

Formatting & Submission:

1. Submit an electronic copy of each draft by the designated deadline.

2. Submit electronic copies via Dropbox on Beachboard (drafts will be reviewed for

plagiarism).

3. Final submission: Submit an electronic copy of the final draft

4. Electronic copies: Please submit list of references and figures as a separate document.

5. All written work should be typed, double-spaced, with 1” margins on all sides, using an

11-point Arial font.

6. Include a title page. The title page should include a concise title that reflects and

emphasizes the content of the project described in the report. The author's name should

follow the title on a separate line, followed by the author's affiliation, and the date.

7. Include a suitable concise title (in the header), and page numbering (in the Footer).

8. Figures and tables should include proper labels, titles, legends, and description. All

figures and tables should be referenced within the text. Figures and tables should be

placed after the references in your document. Each figure and table should be included

on a separate page.

9. Accepted bibliographic styles for references and in-text citations must be used (see

below).

a. Cite References in Text in one of three ways:

b. By superscript numbers, which appear outside the punctuation if the citation

applies to a whole sentence or clause.

c. By italic numbers in parentheses on the line of text and inside the punctuation

(1).

d. By author name and year of publication in parentheses inside the punctuation

(Last Name et al., 2004).

10. Reference List:

• ACS

Author 1; Author 2; Author 3; etc. Title of Article. Journal Abbreviation

Year, Volume, Inclusive Pagination.

Example:

Klingler, J. Influence of Pretreatment on Sodium Powder.

Chem. Mater. 2005, 17, 2755–2768.

• APA

Author, A. A., Author, B. B., & Author, C. C. (Year). Title of article. Title

of Periodical, volume number (issue number), pages.

Example:

Scruton, R. (1996). The eclipse of listening. The New

Criterion, 15(3), 5-13.

Grading will be based on completion and quality of all components of the assignment

(content), submission of all documents by the specified time, and clarity (format,

readability, and grammar).