CH801 Week 7  
Writing II - Developing and Writing a Research Paper:

Instructors Outline

Reference literature:
ACS Style Guide: A Manual for Authors and Editors by Janet S. Dodd  
How to Write and Publish a Scientific Paper by Robert A. Day  
Handbook of Technical Writing by Gerald J. Alred, Charles T. Brusaw, Walter E. Oliu  
The Elements of Style by William Strunk Jr. and E. B. White  
Writing a Thesis: Substance and Style by R. Keith van Wagenen  
MLA Handbook for Writers of Research Papers by Joseph Gibaldi

Introductions to Developing and Writing a research paper:  
Scott’s ppt presentation (Scott’s power point presentation can be found on the previous page in the ‘course notes’ section)

Process, “Outlining”: Find a journal template. Start with figures/tables, schemes then write around data. Who to send paper to (editors)

Read and go over the assigned primary literature for grammar, style, and content. (have overheads or powerpoint of the articles)


Discussion with students (20 min):  
What makes a good paper, science vs. presentation?  
Does effective writing make a better paper?

Discuss the papers you have been asked to read. Which was a good paper and which was a particularly poor paper? What attributes gave it such a designation?

I. Purpose  
   a. Results
b. Audience

c. Authorship

II. Mechanics

a. Who writes the paper?

b. Structure

i. Title

ii. Abstract

iii. Introduction

iv. Experimental Design

   1. Figures

   2. Schemes

v. Results

   1. graphs

   2. tables

vi. Conclusions

c. Proper citation

   i. plagiarism: paraphrasing, quoting, and ideas

   ii. Where is proper citation necessary

III. Drafts and revisions

a. The importance of allowing time for revision

b. Allowing others who are not directly associated with the work to aid in the revision process

Reading Assignment for the Students:

Read Chapter 10, starting at page 121, in Graduate Research-A Guide for Students in the Sciences

Read Publications and Openness (page 9), The Allocation of Credit (page 12), Authorship Practices (page13) in the booklet On Being A Scientist Responsible Conduct in Research