Scientific Writing

MIÉRCOLES, 25 DE ENERO DE 2012 1:00 A 3:30PM ANFITEATRO MANUEL MALDONADO DENIS (CRA-108)

What is scientific writing?

The **reporting of original research** in journals or more broadly to encompass other ways that scientists share research information with one another, including review articles, posters and slide-based presentations.

Scientific writing IS NOT science writing.

To research is to reach past our own knowledge and experience to:

-seek out-investigate-use materials

Research is to go beyond personal resources in three ways:

It may be the study of a subject through firsthand observation or investigation.
It may be the examination of studies that other researchers have done.
It may be an amalgamation of the previous two.

Scientific papers are comprised by the following sections:

Title Abstract Introduction Materials and Methods Results Discussions Conclusions

What are the first operations?

PlanningDocumentationOrganization

The first step towards successful scientific writing is to establish constraints:

-Anticipate audience
-Determine format
-Consider politics
-Polish mechanics



Research is not completed until it is made public.

Vehicles for making communication effective:

-Structure -Language -Illustration



Three ideas to keep in mind:

•Organizing ideas is the task of writing.

•The backbone of all writing is its structure.

•Strategy and purpose lead the reader into understanding.

There are two major ways to organize your material

-Topic Outline -Sentence Outline

TOPIC OUTLINE

Choices in College and After

Thesis: The decisions I have to make in choosing college courses, depend on larger questions I am beginning to ask myself about my life's work.

I. Two decisions described

A. Art history or chemistry

Professional considerations
 Personal considerations

B. A third year of French?

 Practical advantages of knowing a foreign language
 Intellectual advantages
 The issue of necessity

II. Definition of the problem

A. Decisions about occupation

B. Decisions about a kind of life to lead



II. Definition of the problem

A. To hold open a professional possibility: chemistry

B. To take advantage of cultural gains already made: French

SENTENCE OUTLINE

Choices in College and After

Thesis: The decisions I have to make in choosing college courses, depend on larger questions I am beginning to ask myself about my life's work.

I have two decisions to make with respect to choosing college courses in the immediate future. A. One is whether to elect a course in art history or in chemistry.

 One time in my life, I planned to be a chemical engineer professionally.
 On the other hand, I enjoy art and plan to travel and see more of it. B. The second decision is whether to continue a third year of French beyond the basic college requirement.

1. French might be useful both in engineering and travel.

2. Furthermore, I am eager to read good books which are written in French.

3. How necessary are these considerations in the light of other courses I might take instead?

II. My problem can be put in the form of a dilemma involving larger questions about my whole future.

A. On the one hand I want to hold a highly-trained position in a lucrative profession.

B. On the other hand I want to lead a certain kind of life, with capacities for values not connected with the making of money.

III. I will have to make a decision balancing the conflicting needs I have described.

A. I will hold open the professional possibilities by electing chemistry.

B. I will improve and solidify what cultural proficiency in another language I have already gained, by electing French.

The different kinds of writing:

-Expository-Pesurasive-Descriptive-Narrative

Writing is an organic process, where separate sections converge in one unitary task: to transmit an idea.

What is needed to begin an argument?

Your argument should be presented to the reader in one sentence which is called the thesis statement or "claim"

-it must always be defined and stated clearly. -it is an interpretation of the subject matter under discussion.

-it tells the reader what to expect. -makes a claim that others might dispute. The basic unit of a composition is the paragraph

a. Topic sentence
b. Warrants or supporting details
c. Clincher or transitional sentence.



Writing Workshop Session

Conclusions

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