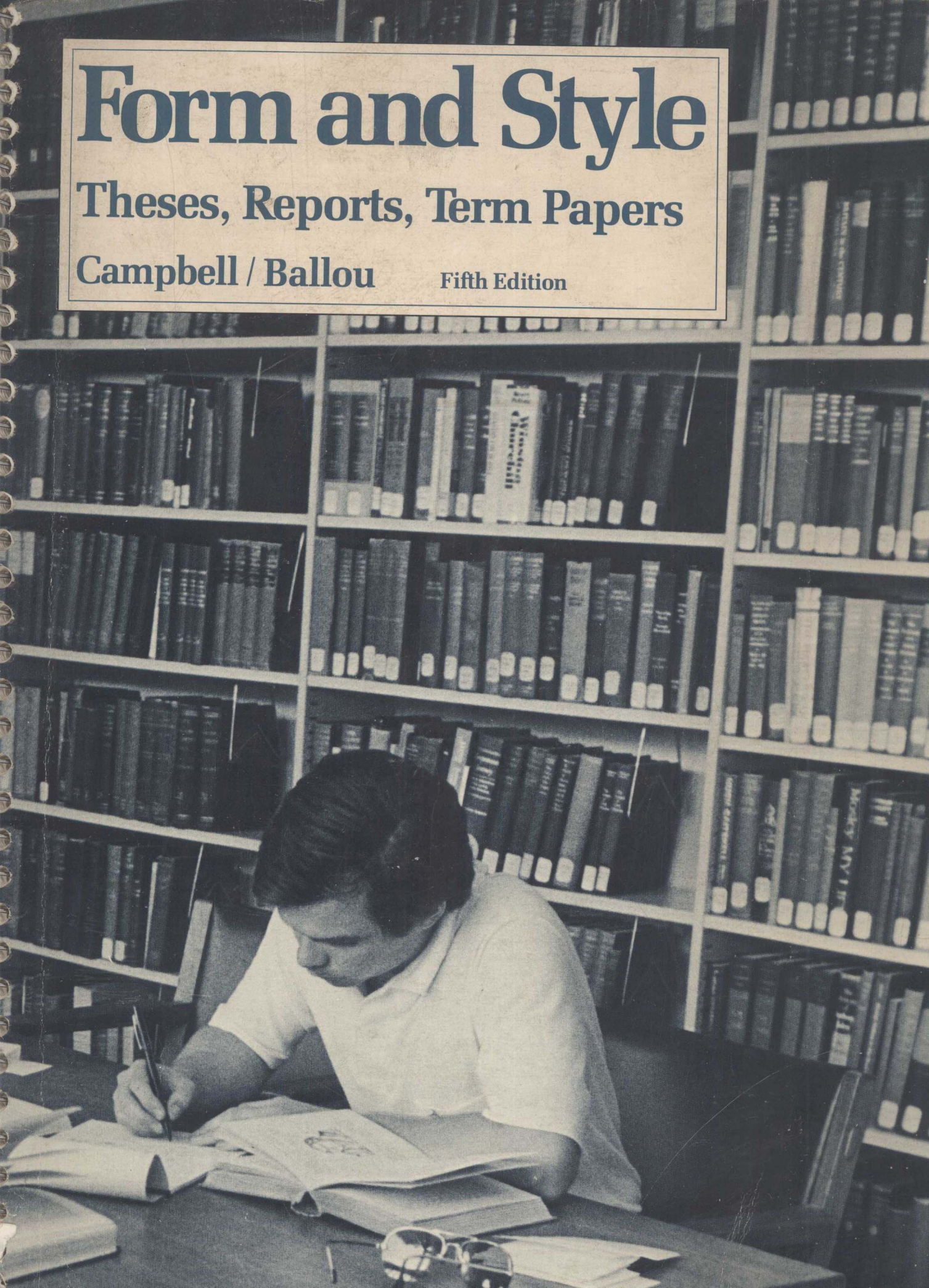


Form and Style

Theses, Reports, Term Papers

Campbell / Ballou

Fifth Edition



Form and Style

Theses, Reports, Term Papers

Fifth Edition

William Giles Campbell *late of the University of Southern California*

Stephen Vaughan Ballou *California State University, Fresno*

Houghton Mifflin Company Boston

Dallas Geneva, Ill. Hopewell, N.J. Palo Alto London

Copyright © 1978 by Houghton Mifflin Company. Copyright 1939 by William Giles Campbell under the title *A Form Book for Thesis Writing*. All rights reserved. No part of this work may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording, or by any information storage or retrieval system, without permission in writing from the publisher.

Printed in the U.S.A.

Library of Congress Catalog Card Number: 77-75137

ISBN: 0-395-25442-6

Acknowledgment is made to the following sources of reprinted materials:

- p. 39 From *Understanding Educational Research* by Van Dalen. Copyright © 1973 by McGraw-Hill, Inc. Used with permission of McGraw-Hill Book Company.
- p. 42 From John Dewey, *Democracy and Education* (New York: Macmillan, 1916). Copyright 1916. Reprinted with permission.
- p. 43 From *Understanding Educational Research* by Van Dalen. Copyright © 1973 by McGraw-Hill, Inc. Used with permission of McGraw-Hill Book Company.
- p. 44 From J. Darrell Barnard, *Rethinking Science Education*, quoted in Woodburn and Obourn, *Teaching the Pursuit of Science* (New York: Macmillan, 1965). Reprinted with permission.
- p. 45 From Benjamin Franklin, letter to Joseph Priestly, quoted in Walter M. Mathews, "Benjamin Franklin—A Father of Decision Making, Too," *Phi Delta Kappan*, September 1976. Reprinted with permission.
- pp. 45–46 From John W. Gardner, *Self-Renewal* (New York: Harper & Row, 1964). Reprinted with permission.
- p. 46 From Campbell, Donald T., and Stanley, Julian C., *Experimental and Quasi-Experimental Designs for Research* (Washington, D.C.: American Educational Research Association, 1963). Copyright 1963, American Educational Research Association. Reprinted with permission.
- pp. 84–85 Keith Woodwick, "Polydora and Related Genera (Annelida Polychaeta) from Eniwetok, Majuro, and Bikini Atolls, Marshall Islands," *Pacific Science* 18 (April 1964), 146–59. Reprinted from *Pacific Science* by permission of The University Press of Hawaii (formerly University of Hawaii Press).
- p. 86 From Phyllis B. Eveleth, "Eruption of Teeth and Menarche," *Human Biology* 38 (February 1966), 69. Reprinted with permission.
- p. 86 From E. R. Trueman, "Observations of the Burrowing of *Arenicola Marina* (L.)," *Journal of Experimental Biology* 44 (February 1966), 93–118. Reprinted with permission.
- p. 87 From J. V. Smith and P. H. Ribbe, "X-Ray-Emission Microanalysis of Rock-Forming Minerals," *Journal of Geology* 74 (March 1966), 197–216. Copyright © 1966 by the trustees of the University of Chicago. Reprinted by permission of the University of Chicago Press.
- p. 87 From Eric L. Miles, "The Zoogeography of North Atlantic and North Pacific Ampeliscid Amphipod Crustaceans," *Systematic Zoology* 14 (June 1965), 119–30. Reprinted with permission.
- pp. 87–88 From Karen O. Mason, William M. Mason, H. H. Winsborough, and W. Kenneth Poole, "Some Methodological Issues in Cohort Analysis of Archival Data," *American Sociological Review* 38 (April 1973), 242–58. Reprinted with permission.
- p. 89 From Roger L. Terry, "Parental Assimilation by Children with and without Behavioral Problems," *Journal of Genetic Psychology* 122 (1973), 55–61. Reprinted by permission of The Journal Press, Provincetown, Mass.
- p. 90 From Man Keung Siu, "Unitary Whitehead Group of Cyclic Groups." Reprinted with permission of the publisher American Mathematical Society from the *Bulletin of the American Mathematical Society*. Copyright © 1973, Volume 79, pp. 92–95.
- pp. 90–91 From Keith B. Oldham and Jerome Spanier, "A General Solution of the Diffusion Equation for Semiinfinite Geometries," *Journal of Mathematical Analysis and Applications* 39 (September 1972), 655–68. Reprinted with permission.

Preface

Form and Style continues to have one primary aim: to render maximum assistance to students and other writers in the preparation of scholarly papers. Since its first publication, its scope has continually broadened so that now it serves a school audience from high school through graduate school and an out-of-school audience in government, business, and industry. Content has been expanded to provide needed guidelines for writing in all the academic disciplines and for preparing all kinds of papers and reports, from class assignments to dissertations and technical reports. *Form and Style* may be used as either a basic or a supplementary textbook in English writing courses, in technical writing courses offered in any department, or in any course that requires the writing of research reports or term papers. It is especially appropriate in research courses and seminars, as well as in the writing of theses and dissertations. Many typists acquire their own copies for handy reference in the typing of theses and research papers.

Guidelines in this edition of *Form and Style* are liberal in the sense that choices of format—in documentation of citations, for example, and in captions for tables and figures—are provided. This feature does not mean that the writer is given free rein to choose any form and style; rather, it demonstrates the recognition that no single set of guidelines can fulfill the requirements of every discipline. Some writers are guided by usage in the journals of their respective fields; some choose a particular set of guidelines for its superior practicality in a given discipline. The writer is assumed to have a basis for making a set of choices and is expected to be consistent in applying those choices.

A special feature of *Form and Style* is a separate chapter on the writing of class papers and reports, often called term papers. Prominence is given to the nature and value of a thesis sentence and a sentence outline by basing Chapter 1 on a thesis sentence and by presenting step-by-step guidelines for writing a term paper in a modified sentence outline format.

Other features designed to assist users of *Form and Style* are: (1) chapter tables of contents; (2) typing instructions—including instructions for spacing—at the ends of most chapters; (3) a section on handling computer materials; (4) the inclusion of specimens and examples in appropriate chapters; (5) the use of marginal notations and color for quick location of topics; and (6) an improved style and organization for more

efficient reading. New examples of footnotes have been included to clarify the distinctive features of three styles of documentation widely used in the humanities, social sciences, and professional disciplines.

One of the outstanding features of *Form and Style* is the charting of format decisions involved in footnoting various kinds of sources. The fifth edition contains separate charts for single-volume works, multivolume works and series, and journals; the latter chart contains separate columns explaining three format practices: the H. W. Wilson Company form, the Modern Language Association form, and the traditional form. These charts provide the most comprehensive and complete instructions available for the preparation of footnotes in any one of the generally accepted formats.

As with earlier editions, much of what is new in the fifth edition of *Form and Style* is the result of suggestions from students and from the field. Users are encouraged to continue the helpful practice of raising questions and making suggestions for a future revision. The authors take this opportunity to acknowledge the valuable contributions of J. Ellen Eason, Towson State College; Warren B. Fruechtel, Edinboro State College; and Vergil Miller, American General Capital Management, Inc., who made thoughtful and analytical proposals for this revision. Suggestions and technical assistance from professors at the California State University, Fresno—Harold S. Karr in the English Department, Berle Haggblade in the School of Business, and Bruce M. Wilkin in the School of Education—were especially valuable and are hereby gratefully acknowledged.

Finally, we acknowledge our deep gratitude and appreciation to our wives, Madge P. Campbell and June K. Ballou, for their constant interest and support in this undertaking.

W.G.C.
S.V.B.

Contents

	Preface	xi
1	Writing Reports and Term Papers	1
	I. Choosing a Topic	2
	A. Choices Available	2
	B. Scope of the Topic	2
	C. Statement of the Topic	3
	II. Preparing a Working Bibliography	4
	A. Library Resources	4
	B. Reference Systems	4
	C. Preparing Bibliography Cards	6
	D. Evaluating References	6
	III. Outlining the Paper	7
	A. The Outlining Process	7
	B. Kinds of Outlines	8
	C. Outline Formats	8
	D. Principles of Organization	9
	IV. Collecting Information	10
	A. Continuing Evaluation of References	10
	B. Note-Taking	10
	V. Writing the Paper	12
	A. The First Draft	12
	B. Revisions	12
	C. Special Elements	12
	D. Final Editing	14
	E. Proofreading	14
2	Elements of a Thesis	15
	The Preliminaries (Front Matter)	16
	Title Page	16
	Copyright Page	16
	Table of Contents	16
	Approval Sheet	17
	Human Subjects Clearance Form	17

Preface	17
Acknowledgments	17
Lists of Tables and Figures	17
List of Plates	18
Abstract	18
The Text	18
Planning Phase: Introductory Chapter(s)	18
Investigation Phase: Analysis Chapter(s)	19
Generalization Phase: Discussion Chapter(s)	19
Summary	19
The Reference Materials (Back Matter, or End Matter)	20
Appendix	20
Bibliography	20
Index	20
Vita	20
Chapter Titles and Headings	20
Typing Instructions	21
Title Page	22
Table of Contents	22
Acknowledgments or Preface	24
List of Tables	24
List of Figures	24
List of Plates	24
Chapter Numbers and Titles	24
Chapter Headings	24
Half-Title Pages	25
Sample Pages	27
3 Quotations	38
Paraphrases	39
Direct Quotations	39
Run-in Quotations	40
Block Quotations	40
Poetry	40
Letters	41
Oral Discourse	41
Quotations in Footnotes	41
Style and Punctuation	41
Introductory Phrases	41
Capitalization	42
End Punctuation	43
Quotation Marks	43
Ellipsis	44
Interpolation	47
Typing Instructions	48
Short Prose Quotations	48
Long Prose Quotations	48
Poetry	48
Letters	49
Quotations in Footnotes	49
Ellipsis	49
Brackets	49

4	Footnotes	50
	General Guidelines	50
	Alternate Formats	51
	<i>Purposes of Footnotes</i>	51
	Numbers and Symbols	52
	Content and Form	52
	Multiple Footnotes	53
	<i>Repeated References</i>	53
	Author Surname	53
	Latin Abbreviations	55
	Secondary Sources	57
	Periodicals	57
	Journals	57
	Newspapers	60
	Books	61
	Single-Volume Works	61
	Multivolume Works and Series	64
	Encyclopedias and Dictionaries	67
	Literary References	67
	Basic Guidelines	67
	Scriptural References	68
	Classical Works	68
	Plays and Long Poems	68
	Government Publications	69
	Legal Documents	69
	Judicial Material	70
	Statutory Material	71
	Quasi-Statutory Material	72
	Miscellaneous Documents	72
	Unpublished Sources	73
	Typing Instructions	75
	Numbers and Symbols	75
	Sequence	75
	Location	75
	Spacing	75
	Short Footnotes	75
	Continued Footnotes	75
	Footnotes in Tables and Figures	76
	Quotations in Footnotes	76
5	Bibliography	77
	Footnote-Bibliography Format	78
	Alphabetization	78
	Classification	79
	By Form of Publication	79
	By Primary and Secondary Sources	79
	Selected Bibliography	79
	Annotated Bibliography	79
	Contents	80
	References-Cited Format	84
	Author-and-Year Format	84
	Author-and-Number Format	88

	In Summary	91
	Typing Instructions	92
	<i>Title</i>	92
	<i>Entries</i>	92
	<i>Annotations</i>	92
	Style Manuals and Guides	93
	Examples of Footnote and Bibliographical Forms	94
6	Tables, Figures, and Computer Materials	110
	Tables	110
	<i>Relating Tables and Text</i>	111
	External Format	112
	Numbering	112
	Captions	112
	Internal Format	113
	Large Tables	114
	Figures	115
	Hand-Drawn Illustrations	115
	Mounted Illustrations	116
	<i>Relating Figures and Text</i>	117
	External Format	118
	Numbering	118
	Captions	118
	Large Figures	118
	Materials and Procedures	119
	In Summary	120
	Computer Materials	120
	Computer Programs	120
	Preservation of Original Data	121
	Computer Output	121
	Typing and Layout Instructions	122
	Tables	122
	Small Tables	122
	Large Tables	122
	Margins	122
	Pagination	122
	Captions	123
	Spacing	124
	Footnotes	125
	Figures	125
	Pagination	125
	Captions	125
	Footnotes	126
	Sample Tables and Figures	127
7	Style and Usage	142
	General Guidelines	142
	<i>Precision and Clarity</i>	143
	<i>Level of Usage</i>	143
	Consistency	143
	Continuity	144
	Mechanics	144
	Spelling	144
	Punctuation	145
	Brackets	145
	Comma	145

Dash	145
Hyphen	145
Quotation Marks	146
Capitalization	146
Italicization	147
Other Problems in Writing	147
Person	147
Verb Tense	148
Anticipatory It	148
Anticipatory There	148
Numbers and Numerals	149
Arabic and Roman Numerals	149
Words or Numerals?	149
Abbreviations	151
Enumeration	151
Editing	153
Selected Reference Books	154
Desk Dictionaries	154
Usage Guides	154

8

Typing the Paper 155

Responsibilities	155
Of the Writer	155
Of the Typist	156
Equipment and Supplies	157
<i>Typewriter Specifications</i>	157
Ribbon	158
Paper	158
Carbon Paper	158
Spacing	159
Centering the Copy	159
Margins	159
Word Division	160
Alignment of Numerals	160
Period Leaders	161
Hyphens and Dashes	161
Typing Instructions	161
Typing Procedure	161
Guide Sheets	161
Insertion of the Page	162
Erasures and Corrections	162
Proofreading	163
In Closing	163
Spacing Guide Sheet	165
Glossary	167
Index	171

1 Writing Reports and Term Papers

Contents

- | | |
|---|---|
| I. Choosing a Topic | C. Outline Formats |
| A. Choices Available | D. Principles of Organization |
| B. Scope of the Topic | |
| C. Statement of the Topic | IV. Collecting Information |
| | A. Continuing Evaluation of
References |
| II. Preparing a Working
Bibliography | B. Note-Taking |
| A. Library Resources | V. Writing the Paper |
| B. Reference Systems | A. The First Draft |
| C. Preparing Bibliography Cards | B. Revisions |
| D. Evaluating References | C. Special Elements |
| III. Outlining the Paper | D. Final Editing |
| A. The Outlining Process | E. Proofreading |
| B. Kinds of Outlines | |

This manual is designed for a variety of audiences: high school students, college and university students, advanced degree candidates, and writers of research reports in business and government. This chapter is written especially for students who have had little or no experience in library research and in writing reports and term papers. Its main value for advanced students and experienced writers is as a review of a particular process, such as using a card catalog, outlining a paper, or taking notes.

For many of you, the major hurdle to overcome in writing a paper is just getting started. Instead of concentrating on what to do first, you tend to dwell on the task as a whole; you are overwhelmed by the seeming magnitude of the assignment. The solution is to decide what needs to be done first and to do that with little thought for the rest of the task. You should maintain perspective on the topic as a whole, but you should take one step at a time.

One of the keys to successful writing is the careful preparation of an outline. The preceding abbreviated outline of this chapter is an example of the useful *topic outline* (you will note from reading the outline that this chapter is organized in terms of the “steps” in writing a paper). The outline should also prove helpful in finding specific topics for review.

Getting started

Topic outline

(See page 153 for two types of the outline format with additional levels of subdivision. To meet the aesthetic requirements of book design, the outline above does not, of course, conform to the recommended outline formats shown on page 153.)

Sentence outline

A topic outline sketches the content, the line of reasoning, and the structural pattern of the paper. The sentence outline, in which each topic is expressed in a complete sentence, provides a more substantial summary of the finished paper. Because outlining is such an important part of organizing and writing a paper, what follows is a conversion of the abbreviated topic outline of this chapter into a sentence outline (in italic type). The subject of each sentence in italic type states the topic of the section that follows; for topics that are subsequently subdivided, the predicate identifies those subdivisions. (Note also that the first sentence of each numbered subdivision states the topic of that subdivision.) Some specialists in technical writing call a sentence outline of this kind an *analytic outline*.

Thesis sentence

Some writing assignments require that the paper be a logical development or expansion of a "thesis sentence." A useful form of the thesis sentence is the one described in the preceding paragraph: a subject that names the topic of the paper and a predicate that states the major parts of the topic (and, hence, of the paper).

The usual "steps" in writing a report include: (1) choosing a topic (I in the following outline), (2) preparing a working bibliography (II following), (3) outlining the paper (III following), (4) collecting information (IV following), and (5) writing the paper (V following).

The preceding statement is the thesis sentence for this chapter. The word *steps* is in quotation marks as a caution against your thinking that the process of writing a paper is strictly sequential. You may find yourself going back and forth and sometimes working on two or three "steps" at the same time. They are the basic elements in the process of writing a paper, and they are taken more or less in the order in which they are presented in this chapter.

I. Choosing a Topic

Choosing a topic involves (a) determining the area of available choices, (b) narrowing the scope of the topic, and (c) stating the topic in a sentence.¹ As you make the decisions leading to the statement of the topic, you should consider such factors as your interest and background in the subject, your ability to be objective, especially if the topic is controversial, and the time available for the assignment.

A. Choices Available

The instructor sets the limits on the choice of available topics. The instructor may assign you a specific topic, provide a list of topics from which you may choose, or give you a free choice of topics within the general scope of the course.

B. Scope of the Topic

The scope of the topic should satisfy the criteria of (1) worthwhileness, (2) manageability, and (3) availability of needed information. Failure to

¹The small letters in parentheses in this major heading statement represent the capital letters of the following subtopics.

consider these matters often results in plunging into writing without adequate planning and on a topic which is not practical under the circumstances. The results may be personally frustrating and academically disappointing.

1. *Worthwhileness* is a subjective characteristic. What seems worthwhile to you may seem relatively unimportant or irrelevant to others, including your instructor. The topic should be of such a nature and scope that, after reading your paper, others will agree with you that it was worthwhile.

2. *Manageability* means that a topic is limited enough to allow for the depth of treatment expected for that assignment. Admittedly, the instructor makes the eventual judgment, but you can tell as you are writing whether the scope of the topic chosen is forcing you to be superficial in your reading and writing.

3. *Availability* refers to the information on hand in the library and, in some cases, the data that can be collected under the existing circumstances. Availability is in a sense an aspect of manageability, but the local library, not the nature of the topic, is the key factor. Some schools without extensive library holdings have guided research textbooks to facilitate the writing of compositions and reports. These books may be anthologies of literature, basic documents, or scientific and critical studies. If your report entails a survey or an experiment, you need to determine that you can really collect the data required within the time limits of the assignment.

C. Statement of the Topic

The topic should be expressed (1) as a thesis sentence or (2) as a question. Suppose, for example, that you decide to write about pollution in the United States. In the process of narrowing the scope, you consider the cost of eliminating pollution in streams and lakes, the role of industrial and governmental agencies in polluting streams and lakes, and a timetable for the elimination of pollution in streams and lakes. These possibilities are more restricted in scope than the original choice, but they can be focused more sharply by stating them as sentences. Here are two ways each of the topics may be stated.

Focusing topic

1. Thesis sentence

The elimination of pollution from streams and lakes would reduce or eliminate profit margins of many businesses unless government shared the cost.

Serious pollution of streams and lakes is caused by industrial concerns and governmental agencies.

A crash program of pollution elimination and control could clean up the country's streams and lakes in five years.

2. Question

How can the cost of cleaning up the streams and lakes be distributed without bankrupting the businesses that are producing the pollution?

To what extent are industrial concerns and governmental agencies polluting streams and lakes?

What is the shortest economically feasible time that would be required to control or eliminate pollution in the country's streams and lakes?

Perhaps as you experiment with sentences that identify various aspects of the broad problem, you recognize that the scope is still too large to be manageable. You may then decide to choose only one aspect to develop in your paper and also to restrict your treatment to one state, or even one

Making scope manageable

city. This would be making the topic manageable in two ways: by choosing only one aspect of the larger problem, and by reducing the geographic scope of that aspect. Similarly, with other topics, you might reduce the scope by, say, analyzing only one of Shakespeare's tragedies instead of all of them, by studying the presidency of the United States in war time instead of for all the years of the republic, by investigating the drug scene on your own campus instead of in the entire school district. Stating the topic as a sentence sharpens the focus, and with a sharper focus you are better able to determine the real scope of the topic and its manageability.

Thesis sentence:
deductive

Question:
inductive

The thesis sentence is a kind of hypothetical proposition that requires evidence in order to support or test it. It is a conclusion in search of arguments, basically a deductive approach. The question statement, on the other hand, begins with a search for information that, correctly assembled, leads to valid conclusions, basically an inductive approach.

II. Preparing a Working Bibliography

Preparing a working bibliography requires (a) knowledge of library resources, (b) the ability to use indexes to locate references, (c) a system for recording pertinent sources of information, and (d) continuous evaluation of references. Most short research papers should be based upon more than two or three references, probably at least ten and possibly twenty or more in some cases.

A. Library Resources

To the extent they are available and relevant, the following library areas and services should be used: the information desk and printed guides, the reference room, the card catalog, periodical indexes, the periodicals room, the reserve reference room, government documents, special collections, and mechanical aids like typewriters and copy machines. Some libraries conduct an occasional guided tour; otherwise, you can locate the various resources on your own.

B. Reference Systems

References containing needed information may be located by consulting (1) encyclopedias and bibliographies of bibliographies, (2) the card catalog, and (3) periodical and subject area indexes. The key to efficiency is to focus on those reference tools that lead to pertinent sources in the library. There is no point in spending time looking for books and periodicals that are not in the library.

1. *Encyclopedias and bibliographies of bibliographies*, found in a reference room or section of the library, provide useful starting points in many cases. If you have considerable latitude in the choice of a topic, and particularly if you lack background in a subject, you will find that a general encyclopedia like the *Encyclopaedia Britannica* or the *Encyclopedia Americana* can be very helpful, both for an overview of possible topics and for selected references on a given topic. Subject area encyclopedias may be even more useful in many instances.

2. *Card catalogs* list volumes in three ways and classify them by means of call numbers and letters. Volumes are listed in a card catalog by author, by title, and by subject.

Main entry card:
author

The author listing is known as the *main entry card*; the category includes editors, compilers, and translators as well as authors. In addition to finding the location of a particular work by a certain author, you can

also find a complete listing of works by that author available in the library.

Works that are better known by title than by their authors, and works by unknown authors, can be located by finding the *title card*. It is usually interfiled alphabetically with author and subject cards according to the first word—excluding *A*, *An*, and *The*.

Title card

Subject cards are the means for locating references in the library that are relevant to your topic; they are filed in a separate card catalog in some libraries. In many cases this is the most useful starting place for a working bibliography, and the key to it is the system of subject classification and subdivision adopted by the library.

Subject card

In order to use subject cards intelligently and efficiently, you should study the category headings, subheadings, and cross-references in the system used: Dewey decimal or Library of Congress. Knowing the major categories and subcategories of the system helps in locating additional sources, especially if the library has open stacks in which you may browse. If the classification system books listed below are not available, look in the card catalog under the heading *Subject Headings*, or ask a librarian. In the card catalog, look first under the name of the subject, for example: art, history, linguistics, physics; here you will find subdivisions and cross-references related to the subject, and you can begin to narrow the range of possible choices. Choose the most promising headings and look under them.

Subject classification systems

Subject headings in card catalog

For a card catalog with headings based upon the Dewey decimal system, see *Sears List of Subject Headings*, by Minnie Earl Sears. Call numbers, found in the upper left-hand corner of the cards, are based upon the Dewey system; the major categories are as follows:

000–099 General Works	500–599 Pure Science
100–199 Philosophy	600–699 Technology
200–299 Religion	700–799 The Arts
300–399 Social Sciences	800–899 Literature
400–499 Language	900–999 History

Dewey decimal categories

For a card catalog with headings based upon the Library of Congress system, see either *Subject Headings Used in the Dictionary Catalogs of the Library of Congress*, edited by Marguerite V. Quattlebaum (with supplements) or *Outline of the Library of Congress Classification*. The latter is organized under the following major categories, which serve as the basis for Library of Congress call numbers:

A General Works—Polygraphy	N Fine Arts
B Philosophy—Religion	P Language and Literature
C History—Auxiliary Sciences	Q Science
D History and Topography (except America)	R Medicine
E-F America	S Agriculture—Plant and Animal Husbandry
G Geography—Anthropology	T Technology
H Social Sciences	U Military Science
J Political Science	V Naval Science
K Law	Z Bibliography and Library Science
L Education	
M Music	

Library of Congress categories

3. *Periodical indexes* list each article, editorial, review, and the like in each issue of the periodicals surveyed for that particular index; *subject*

area indexes list books also. Consult the card catalog under the heading Indexes by itself or as a subdivision of a specific subject, or ask the reference librarian for the location of suitable indexes. These indexes are extremely useful and rather easy to use if you read the description of the organization of the index and the list of abbreviations first. Find out which of the periodicals included in the index are in the library; there is no point in writing down references that are not available.

C. Preparing Bibliography Cards

References that appear to be pertinent to the chosen topic should be listed systematically, (1) one to a card and (2) in an acceptable bibliographic format. These are known as the *working bibliography*.

1. For ease of revision and final alphabetizing, list each reference on a separate 3 × 5 card.

2. The usual elements in a bibliography entry are author (or equivalent), title (of book or article and periodical), facts of publication (place, publisher, and date of a book, or volume number and date of a periodical), and the inclusive page numbers (for an article in a periodical). If the references on the cards follow the specified format, you can prepare the bibliography from the cards when the final selection of sources has been made (for a wider variety of examples, see Chapter 5).

D. Evaluating References

A continuing evaluation of references should be made in terms of (1) relevance, (2) primary and secondary sources, (3) objectivity, (4) author qualifications, and (5) readability.

1. Relevance is a matter of degree: too literal an interpretation could result in the elimination of most references; too broad an interpretation could send you off on interesting but nonessential bypaths.

2. Primary sources are usually original, creative works (autobiographies, diaries, literary works); eyewitness and newspaper accounts of

Amalrik, Andrei. Will the Soviet Union Survive until 1984? New York: Harper & Row, 1970.

Bibliography card: book

Kassan, Lawrence. "The Serpent in the Garden."
Phi Delta Kappan, 54:261-65, December, 1972.

Bibliography card: periodical

events; and historical documents. They are generally considered to be superior to secondary sources, which are what someone has said—usually in writing—about a primary source. However, the distinction is not always sharp; for example, a secondary source is also a primary source with respect to personal opinions expressed by the author of the secondary source.

3. *Objectivity* is the lack of bias. Partisan points of view may appropriately be included as part of the research for a paper, but they should be recognized and identified as such.

4. *Author qualifications* include education, experience, and allegiance. This information may be found in preliminary or appendix material in the reference itself, in a biographical dictionary or encyclopedia, or in a directory like *Who's Who*. The author's allegiance—be it commercial, political, philosophical, or religious—is extremely important, especially for its possible effect on objectivity.

5. *Readability* is measured by the degree of understanding gained by the reader from a particular source. If you find that a reference is too technical or advanced to understand, you should probably omit it.

III. Outlining the Paper

Outlining the paper effectively requires an understanding of (a) the developmental process involved, (b) the kinds of outlines, (c) the choices of outline format, and (d) principles of organization. Not only is outlining a way of thinking systematically about a topic, it is efficient in terms of the time needed to write the paper. It saves time in the long run.

A. The Outlining Process

An outline for a paper develops out of (1) the thesis sentence or question to be answered, (2) the working bibliography, and (3) the process of trying different patterns of subtopic relationships. Suggestions for writing the topic sentence and selecting a working bibliography are made in sections