

Scientific research reports

Format of research reports in the faculty of Science

Research reports in the Sciences contain common elements and generally follow the basic format outlined as follows:

Title

Your title should be brief, topic-specific and informative, clearly indicating the purpose and scope of your study. Include key words in your title so that search engines can easily access your work. Example:

Measurement of water flows around Station Pier

Abstract

An abstract is a concise summary that enables readers to quickly assess the contents and direction of your paper.

It should be brief (around 5% of the total), written in a single paragraph and should cover the scope and purpose of your paper.

For more information on writing an abstract please refer to the Academic Skills Ryerson: Writing an Abstract.

Introduction

The introduction sets the context for your research. It should supply sufficient background to allow the reader to understand and evaluate the present study without needing to refer to previous publications.

After reading the introduction your reader should understand exactly what your research is about, what you plan to do, why you are undertaking this research and which methods you have used.

Introductions generally include:

- the rationale for the present study. Why are you interested in this topic? Why is this topic worth investigating?
- key terms and definitions
- an outline of the research questions and hypotheses; the assumptions or propositions that your research will test.

Literature Review

A literature review is a critical survey of recent relevant research in a particular field. Its purpose is both to offer the reader an overview of the current state of research and to situate your paper within that research.

Frequently, the review is part of the introduction.

The review should be a selection of carefully organised, focused and relevant literature that develops a narrative "story" about your topic. Your review should answer key questions about the literature:

- What is the current state of knowledge on the topic?
- What differences in approaches / methodologies are there?
- Where are the strengths and weaknesses of the research?
- What further research is needed?

The review may identify a gap in the literature which provides a rationale for your study and supports your research questions and methodology.

Methodology (Materials and Methods)

The purpose of this section is to detail how you conducted your research so that others can understand and replicate your approach. You need to briefly describe the subjects (if appropriate), any equipment or materials used and the approach taken.

If the research method or method of data analysis is commonly used within your field of study, then simply reference the procedure. If, however, your methods are new or controversial then you need to describe them in more detail and provide a rationale for your approach.

The methodology is always written in the past tense. This section should be written succinctly.

Results

This section is a concise, tabular or graphic summary of your findings, listed under headings appropriate to your research questions.

Present your results in a consistent manner. For example, if you present the first group of results as percentages, it will be confusing for the reader and difficult to make comparisons of data if later results are presented as fractions or as decimal values.

Do not discuss your results here. Any analysis of your results occurs in the Discussion section.

Raw data or details about the method of statistical analysis used should be included in the Appendices.

Science Research Report Format

David Porush

Science Research Report Format:

Research Methods in Public Administration and Nonprofit Management David E. McNabb, Never HIGHLIGHT a Book Again Includes all testable terms concepts persons places and events Cram101 Just the FACTS101 studyguides gives all of the outlines highlights and quizzes for your textbook with optional online comprehensive practice tests Only Cram101 is Textbook Specific Accompanies 9780765628794 This item is printed on demand **Representation and the Text** William G. Tierney, Yvonna S. Lincoln, 1997-01-01 Focuses on authorial representations of contested reality in qualitative research This book focuses on representations of contested realities in qualitative research The authors examine two separate but interrelated issues criticisms of how researchers use voice and suggestions about how to develop experimental voices that expand the range of narrative strategies Changing relationships between researchers and respondents dictate alterations in textual representations from the view from nowhere to the view from a particular location and from the omniscient voice to the polyvocality of communities of individuals Examples of new representations and textual experiments provide models for how some authors have struggled with voice in their texts and in so doing broaden who they and we mean by us *Research Methods for Massage and Holistic Therapies* Glenn Hymel, 2005-09-23 This comprehensive resource covers a broad array of research strategies available to massage therapists to give them the tools they need to be knowledgeable readers of research literature as well as active researchers The primary focus of the book is on the quantitative aspect of research that encompasses the principal types of studies most extensively used in the various health care professions specifically massage therapy Extensive coverage is also given to the qualitative and integrative research categories that are progressively gaining recognition among researchers in various health science disciplines and professions Accommodates the March 2003 mandate from the Commission on Massage Therapy Accreditation COMTA that massage therapy schools incorporate into their curricula provisions to ensure a research literate profession Examples and techniques for interpreting research guide practitioners and students to be knowledgeable readers of massage therapy research allowing application to practice Relies heavily on concept maps flowcharts tables and illustrations and excerpts of published studies to augment the book's narrative development of topics by providing pictorial displays and summaries of the material Literature based and hypothetical research examples illustrations from several manual therapy professions employing therapeutic massage make the material pertinent to real life settings An introductory section at the beginning of each chapter reviews the material covered in the previous chapter and how it relates to the new material Chapter coverage spans the quantitative qualitative and integrative research categories and affiliated research strategies and methods are considered in detail Review summary tables give an overview of the narrative development of topics Boxes provide the essential features of a given topic Relies on multiple examples of possible research scenarios and illustrative excerpts from the published research literature Content is cross referenced for use with the Massage Therapy Foundation's Massage Therapy Research Curriculum Kit to provide both

instructors and students in the 6 15 and 24 hour options levels an extensively developed resource in one place Each chapter includes recommended web sites and software application packages for further information **The Practice of Research in Social Work** Rafael J. Engel,Russell K. Schutt,2005-02-15 The Practice of Research in Social Work introduces research methods as an integrated set of techniques for investigating the problems encountered in social work This innovative text encourages students to connect technique and substance to understand research methods as an integrated whole and to appreciate the value of qualitative and quantitative alternatives The text enables students to both critically evaluate research literature and to develop the skills to engage in research and practice evaluation Each chapter shows how particular research methods have been used to investigate an interesting social work research question and content on research ethics and diversity is infused into each chapter The goal of validity is introduced early in the text and used as an integrating theme throughout the book Methods of particular concern in social work research are highlighted with chapters devoted to group survey single subject and qualitative designs The text is lively and accessible yet the coverage is thorough and up to date

Swedish Behavioral Science Research Reports Statens psykologisk-pedagogiska bibliotek,1980 **Research Methods for Political Science** David E. McNabb,2020-12-30 The third edition of Research Methods for Political Science retains its effective approach to helping students learn what to research why to research and how to research The text integrates both quantitative and qualitative approaches to research in one volume and covers such important topics as research design specifying research problems designing questionnaires and writing questions designing and carrying out qualitative research and analyzing both quantitative and qualitative research data Heavily illustrated classroom tested exceptionally readable and engaging the text presents statistical methods in a conversational tone to help students surmount math phobia Updates to this new edition include Research topics chapters have been upgraded and expanded Two mixed methods design chapters have been added A new chapter on hermeneutic analysis designs and research with large data sets The chapter on multivariate statistics has been expanded with an expanded discussion on logistic regression Tools on how to prepare and present research findings are now featured in the appendix allowing instructors more flexibility when teaching their courses Research Methods for Political Science will give students the confidence and knowledge they need to understand the methods and basics skills for data collection presentation and analysis **Researching and Writing in the Sciences and Technology** Christine A. Hult,1996 Readers will learn to research and write papers in science and technology with this thorough and complete guide to research in the sciences Part of a series on research writing across the curriculum RESEARCHING AND WRITING IN SCIENCES AND TECHNOLOGY provides discipline specific guidance and sample papers that assist readers in preparing their own science papers Academic Writing Mary Kay Mulvaney,David A. Jolliffe,2005 This unique interdisciplinary text and reader introduces students to the multiple genres of academic writing across the curriculum Academic Writing is the first text to offer a discussion of academic genres and writing to learn and learning to

write in college an explanation of genre practices and conventions across the disciplines annotated examples of student papers across the disciplines written in response to actual college assignments instruction in research writing from sources and documentation and thematic clusters of professional readings as engaging examples of published academic writing Academic Writing will prepare students in all academic disciplines to succeed in today's challenging world of writing both in the classroom and in the workplace beyond *Scientific Style and Format*, 2006 Scientific Style and Format is the most recognized authoritative reference for authors editors publishers students and translators in all areas of science and related fields The seventh edition of this useful resource has been fully updated and expanded to reflect changes in recommendations from authoritative international bodies New chapters cover the responsibilities of authors editors and peer reviewers in scientific publication and discuss copyright requirements and practices The chapters on books and journals provide advice pertinent to both electronic and print publication and authoritative online resources are listed where available Both American and British styles are covered Everyone involved in scientific publishing should have the seventh edition of Scientific Style and Format on hand *A Short Guide to Writing about Science* David Porush, 1995 Advanced advice for students who want to read write and learn about science in preparation for a career in that field

Writing for Science

Robert Goldbort, 2006 This book encompasses the entire range of writing skills that today's experimental scientist may need to employ Chapters cover routine forms such as laboratory notes abstracts and memoranda dissertations journal articles and grant proposals Robert Goldbort discusses how best to approach various writing tasks as well as how to deal with the everyday complexities that may get in the way of ideal practice difficult collaborators experiments gone wrong funding rejections He underscores the importance of an ethical approach to science and scientific communication and insists on the necessity of full disclosure

A Basic Collection for Scientific and Technical Libraries Effie B. Lunsford, Theodore J. Kopkin, 1971 *The American Biology Teacher*, 1938 Includes section Books **Lafiagi Journal of Science Education**, 2001-03 **U.S. Government Research & Development Reports**, 1970 *Writing in the Disciplines*, 1995

Researching and Writing Across the Curriculum Christine A. Hult, 2002 This thorough and complete guide is an essential reference in teaching research and writing in the humanities sciences social sciences and business Presents comprehensive coverage of both primary and secondary research methods In depth outlines of model research projects in each discipline help readers see the similarities and differences between research in the four discipline areas Details the latest MLA and APA documentation formats for electronic sources Contains a complete listing of library resources by discipline including computerized databases Features in chapter exercises and discussion questions Features a new section on critical thinking in Chapter 1 relating the inquiry process to critical thinking skills For those interested in enhancing their research skills

Writing in the Disciplines Mary Lynch Kennedy, William John Kennedy, Hadley M. Smith, 1990 **Research Methods for the Behavioral Sciences** Charles Stangor, 1998 *Report of the National Science Board*, 1987

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