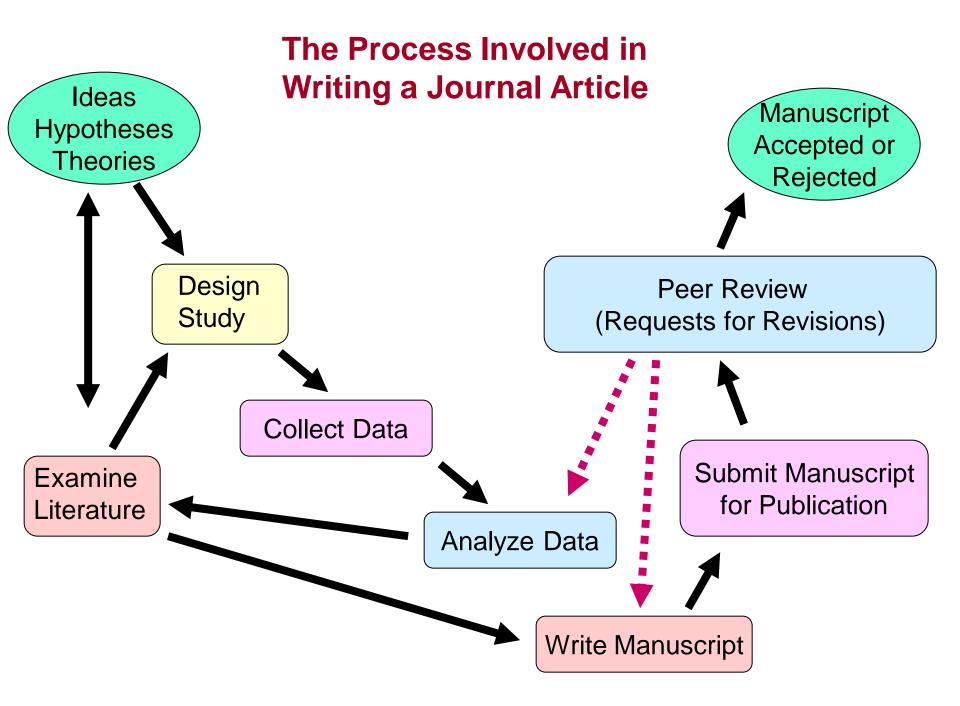
KINE 601

The Research Journal Article

Reading: Huck pp 2 - 16



Research Journal Articles and the Academic Department

- Research Journals different importance impact factors
 - The more important the journal, the more difficult to get published
 - Impact factors index of the # of citations from articles from a journal
 - published by the Institute for Scientific Information (ISI)
 - published in "Journal Citation Reports"
 - Note: MANY journals are not rated by the ISI and don't have impact factors
 - Read more about impact factors
 - Impact factor calculation for a given journal published in ISI:

of citations in ISI journal in year x for years x-1 and x-2

total # of papers published in that journal in years x-1 and x-2

- Politics and ethics of research publication
 - competition among researchers for top journal publications
 - friends on editorial boards
 - should national reputation of a scholar preclude peer review ?
- Academic department tenure, promotion, merit pay
 - grants & contracts are important as well as publications
 - teaching plays a minimal role given lip service but has little value
 - what is the true purpose of university?
 - <u>generate</u> knowledge or <u>disseminate</u> knowledge ?

Components of a research journal article

- <u>Title</u>
- <u>Authors</u>
- Abstract
- Introduction
- <u>Methods</u>
- <u>Results</u>
- Discussion
- Acknowledgements
- <u>References</u>

Title & Authorship of a Journal Article

Title

stated in as few words, characters, and spaces as possible

most journals have limits

Author Line

who should be on author line and in what order ?

- first author usually, actual writer of the paper does the most work
- Iast author sometimes, director of the lab where research was done
- only those making "significant" contributions should be included
 - those that gather the data ? (graduate students ?)
 - statistician ?
 - proofreader or editor ?
 - director of lab where research is done ?
 - colleagues ?
- data ownership
 - who "owns" the data once it has been collected?

Abstract

- integral part of theses / dissertations
- summarizes the study provides reader with overview
- contains: purpose, methods (subjects), results, conclusions
- normally 150 200 words (# of words usually mandated by journal)
- usually set off from the body by different font, font size, or italics
- many times contains the "citation" if not, it should be on page(s)
 - journal name, publication year, volume #, issue #, page numbers
- Introduction background, rationale, and purpose of the study
 - Introduction in theses / dissertations is expanded (chapter 1)
 - background and rationale (justification for study)
 - citations connecting and relating the present study with past work
 - some contain a mini lit. review others simply skip to the purpose statement
 - complete literature review for theses / dissertations (chapter 2)
 - Purpose of the study (formal hypothesis in theses / dissertations)
 - clear question(s) to be answered should be described in detail

Methods (Chapter 3 in theses / dissertations)

- explains all facets of how study was conducted
 - "how" the researcher is going to arrive at an answer to the question(s)
- should contain enough information as to enable replication of study
- **SUBJECTS** section:
 - selection method, dropouts (mortality), informed consent information
 - important because it relates to "generalizability" of study results
- INSTRUMENTATION & MATERIALS section
 - description of things other than subjects used to conduct the study
 - apparatus, questionnaires, biochemical assay techniques, etc.

PROCEDURES section

- detailed account of what was done to the subjects and when
 - description of the sequence of events involving:
 - 1. manipulation of the independent variable (if there is one)
 - 2. the gathering of the information related to the dependent variable
 - note: the procedures and the instrumentation sections may be intertwined and may not be distinguishable

Results (Chapter 4 in theses / dissertations)

- a description of the study outcomes (statistical findings)
- tables listing means & variability of the dependent variable
 - minimally, means & some measure of variability should <u>always</u> be included
- figures, charts, and graphs illustrating what is contained in the text
 - general results explained in text, specifics in tables & illustrations

Discussion/Conclusions (Chapter 5 in theses / dissertations)

- what results mean in regard to answering the research question
 - conclusions generalizations
- why the researcher thinks the results turned out as they did
- how the results relate to or "fit in" with previous findings
- suggestions for directions of future research

Acknowledgements

- tribute to those contributing to project that are not on author line
 - secretaries, typists, technicians, graduate students
- recognition of funding agency(ies) that made the project possible

References

- Citations used in the text
 - Article title, Journal / Book name, publication year, volume #, issue #, page numbers, editors, and other relevant publication information
- Formatted according to "information for authors" for particular journal
 - almost all journals have their own format for entire paper
 - many journals list information for authors on a website or they are contained in selected issues of the journal (January & June issues)