Gender & Science
Library Session

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Instruction & Emerging Technologies Librarian
Objectives

- Become familiar with disciplinary differences in scholarly literature
- Know which databases are recommended for your assignments
- Apply multiple strategies when searching for scholarly literature
- Know where to go if you have questions
Broad Disciplinary Definitions

Humanities
Social Sciences
Sciences
Which is it?

- The scientific method (or simply scientific method) is a body of techniques for investigating phenomena, acquiring new knowledge, or correcting and integrating previous knowledge.

- To be termed scientific, a method of inquiry must be based on empirical and measurable evidence subject to specific principles of reasoning.

- The Oxford English Dictionary says that scientific method is: "a method or procedure that has characterized natural science since the 17th century, consisting in systematic observation, measurement, and experiment, and the formulation, testing, and modification of hypotheses."
Which is it?

- academic disciplines that study the human condition, using methods that are primarily analytical, critical, or speculative, as distinguished from the mainly empirical approaches of the natural sciences.

- includes ancient and modern languages, literature, history, philosophy, religion, and visual and performing arts such as music and theatre.

- These areas can belong to more than one category: history, anthropology, area studies, communication studies, cultural studies, law and linguistics.
Which is it?

- The study of human society and of individual relationships in and to society.

- A scholarly or scientific discipline that deals with such study, generally regarded as including sociology, psychology, anthropology, economics, political science, and history.

- Quantitative designs approach social phenomena through quantifiable evidence, and often rely on statistical analysis of many cases (or across intentionally designed treatments in an experiment) to create valid and reliable general claims.

- Qualitative designs emphasize understanding of social phenomena through direct observation, communication with participants, or analysis of texts, and may stress contextual and subjective accuracy over generality.
**IMRaD**

**Introduction**

A brief paragraph with a sentence summarizing each of the four IMRaD sections. Sometimes this introduction is not separate, but rather is at the very beginning of the "Introduction" section below.

**Methods/Materials**

Description of the specific materials and/or methods used to carry out the research in several paragraphs.

**Results**

Description of the application of the data and specific results or findings in several paragraphs.

**Discussion**

Extended discussion of the results—what they mean, what will or can happen next, what other experiments might be fruitful, etc. If you're writing a research paper, this section may have a number of quotations and paraphrases.

**Conclusion**

A brief paragraph summarizing the "Discussion" section, sometimes with a sentence suggesting future directions. This conclusion may not be separate but rather a final paragraph in "Discussion" above.
Limit to peer-reviewed
Preparing the Future STEM Workforce for Diverse Environments

Author: Daily, Shaundra Bryant; Eugene, Wanda

Subjects: Empathy; Computational Thinking; Digital Storytelling; Diversity


Description: Following the belief that diversity breeds innovation in scientific endeavors, there is a national push for more diversity in the science, technology, engineering, and mathematics (STEM) workforce in order to maintain national economic competitiveness. Currently, STEM-related employment is only 28% non-White; however, greater
Search multiple databases

- ISearch: all disciplines
- Academic Search Premier: all disciplines
- Web of Science: all disciplines
- Google Scholar: all disciplines
  - Doesn’t use *

All listed here

http://guides.library.oregonstate.edu/course-guide/3441-WGS340
Keywords

- Ethnic groups in stem careers
- “African Americans” in engineering
- Latin* or Hispanic* in STEM
- Others?
Result analysis

- Using the prompt, identify 2 citations from scholarly journal articles.
- Look at the journal titles and the article descriptions, what are 2 additional keywords you could search to find additional literature?
- Also what broad discipline are the articles based in? For example: social sciences, education.
- Did/can you limit to peer-reviewed?
- Prepare to boldly show what you did.
What are tips & tricks everyone should know?
Reading Scholarly Articles

- How to Read and Take Notes on a Scholarly Journal Article How to Understand the Author
  - http://www.pasadena.edu/hstutoringlab/writing/writingscholarlyarticle.cfm

- How to Read an Academic Article by Becky Rosenberg,
  - http://faculty.washington.edu/davidgs/ReadArticle.html
More help

- Research Guide for WGSS340:
  - [http://guides.library.oregonstate.edu/course-guide/3441-WGS340](http://guides.library.oregonstate.edu/course-guide/3441-WGS340)

- Student Multimedia Services in the Library
  - Poster printing
  - [http://oregonstate.edu/is/mediaservices/sms/undergraduates-home-page](http://oregonstate.edu/is/mediaservices/sms/undergraduates-home-page)

- Workshops @ Library

- Writing Center
  - [http://cwl.oregonstate.edu/](http://cwl.oregonstate.edu/)
Questions?

- Contact me:
  - jane.nichols@oregonstate.edu
- Contact other librarians
  - http://osulibrary.oregonstate.edu/staff/subject-specialists
- Contact the library:
  - http://osulibrary.oregonstate.edu/reference