SANTIAGO CANYON COLLEGE

STUDENT RESEARCH SYMPOSIUM

READY...SET...RESEARCH!

Santiago Canyon College
READY...SET...RESEARCH!

Linda Azen Martin, Librarian
martin_linda@sccollege.edu
### Why Participate?

<table>
<thead>
<tr>
<th>Why Participate?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualify for future research opportunities and awards</td>
</tr>
<tr>
<td>Work with faculty mentors who are experts in their fields</td>
</tr>
<tr>
<td>Gain experience necessary for competitive transfer</td>
</tr>
<tr>
<td>Make a difference and have impact</td>
</tr>
<tr>
<td>Receive recognition and possible award</td>
</tr>
<tr>
<td>Presentation Format(s)</td>
</tr>
<tr>
<td>-------------------------------------------------------------</td>
</tr>
<tr>
<td>Research poster</td>
</tr>
<tr>
<td>(print or electronic)</td>
</tr>
<tr>
<td>Individual presentation</td>
</tr>
<tr>
<td>Small group presentation</td>
</tr>
<tr>
<td>Large group presentation</td>
</tr>
<tr>
<td>Creative work presentation, display, performance</td>
</tr>
</tbody>
</table>
SCC Research Symposium Timeline

August – December 2018
- Begin exploring your research topic and developing your proposal
- Identify faculty mentor(s) to assist you with your proposal
- Attend SCC Library research workshops and consult with a librarian
- Contact Tiffany Gause or Lacy Hedenberg about symposium deadlines

January – March 2019
- Work with your faculty mentor on your proposal / research
- Conduct your research and analyze your findings
- Write your research abstract, assistance is available in the Writing Center

March – April 2019
- Attend oral presentation rehearsals – dates/locations: TBD
- Submit research application and 25 word minimum abstract to Lacy Hedenberg at Hedenberg_Lacy@sccollege.edu or in D-106. Deadline is April 1, 2019
- Attend how to prepare poster or slide presentations workshop – dates/locations: TBD

April 26, 2019 – 3rd Annual SCC Research Symposium
Workshop Goals

Ready, Set, Research Workshops support you in all stages of the research process, from developing a research question to presenting your work. This workshop will help you:

☑ get started in developing a research plan

☑ outline specific research strategies for your topic using tools and resources at SCC Library and beyond

☑ learn how to cite sources using the NoodleTools program
Use research skills to:

- brainstorm ideas, explore ideas and questions
- obtain background information about topic – try using a concept map
- explore feasibility of topic – is it too broad or too focused?
- perform a review of relevant literature to better understand what kind of research has been done on your topic before
- identify methods, tools, instruments, + - ones that will best suit your work
- locate opportunities for collaborating
- locate opportunities for funding your research
- locate opportunities for presenting, awards, +
- locate guidelines to submit written abstracts or papers for publication
<table>
<thead>
<tr>
<th>Type of Research</th>
<th>Purpose</th>
<th>Question</th>
<th>Audience</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploratory</td>
<td>Learn about something new or unknown</td>
<td>What?</td>
<td>Varies, usually researchers</td>
<td>General ideas and research questions</td>
</tr>
<tr>
<td>Descriptive</td>
<td>Provide details on something known</td>
<td>Who? When? How?</td>
<td>Varies</td>
<td>Factual details and descriptions</td>
</tr>
<tr>
<td>Explanatory</td>
<td>Devise a new explanation or test an existing explanation</td>
<td>Why?</td>
<td>Researchers</td>
<td>Test a theory, compare explanations</td>
</tr>
<tr>
<td>Evaluation</td>
<td>Determine the effectiveness of a program or policy</td>
<td>Does it work?</td>
<td>Practitioners and policy / decision makers</td>
<td>Practical recommendations</td>
</tr>
</tbody>
</table>
- Research Topic
- Familiarize yourself with existing research
- Chose research method(s)
- Determine what you will test?
- Collect your data
- Interpret your findings
- What is the significance of the findings?
  How do they relate to previous findings?
- How will you disseminate your work?
- What are the future implications?

Source: Adam Chagani @ IHUB RESEARCH
28 FEB 2016
If you haven’t already, start now!
Choose a research topic

- one you are interested in and passionate about
- one you have a question about
- one that is specific and manageable in terms of scope
- one in which you can define a well-formulated research question or thesis statement
- one you have an opportunity to be involved / participate in
- ...
Make a research plan

- create a timeline for all activities and deadlines
- outline a mind or concept map
- create a literature map
- review research methodology books/web sites in your discipline of study
- consult your mentor for assistance
- document your literature search process/results – include search words, databases, web sites, +
- evaluate your sources systematically – I recommend the CRAAP test
- obtain copies of articles and other sources you are using
- search other academic library databases to find relevant articles
- organize your sources using NoodleTools – include citations, annotations, note cards, +
- decide on the approach you will use to present the review of the literature of your topic
### What information do I need?

<table>
<thead>
<tr>
<th>Reference Materials (Encyclopedias, almanacs, manuals)</th>
<th>Definitions, Overviews and Summaries, Facts, Statistics, Formulas, How-to Information, +</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and eBooks</td>
<td>Background, History, Analysis and Discussion, +</td>
</tr>
<tr>
<td>Journals</td>
<td>Scholarly Writing and Current Research Findings, Statistics</td>
</tr>
<tr>
<td>Magazines and Newspapers</td>
<td>Current Events, News, Issues, Hot Topics</td>
</tr>
<tr>
<td>Interviews, Speeches, Government Publications, Technical Publications</td>
<td>Historical and Current</td>
</tr>
<tr>
<td>Internet Sources – Web sites, Blogs, Pictures/Graphics</td>
<td>All of the Above, +</td>
</tr>
</tbody>
</table>
At SCC and University Libraries, Where do I search to locate …

<table>
<thead>
<tr>
<th>Reference Materials</th>
<th>Library Online Catalogs, Online Reference Collections/Databases, Online Reference Web sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Books and eBooks</td>
<td>Library Online Catalogs, Online eBook Collections/Databases, Online Book Sources – Google Books, Project Gutenberg</td>
</tr>
<tr>
<td>Journals</td>
<td>Journal Articles Databases, Open Access Journals, Online Journal Collections,</td>
</tr>
<tr>
<td>Magazines and Newspapers</td>
<td>Magazine and Newspaper Collections and Databases</td>
</tr>
<tr>
<td>Internet Sources – Web sites, Blogs, Government sites, +</td>
<td>General and Specialized Web Search Engines, Google Scholar, Online Subject Collections and Bibliographies</td>
</tr>
</tbody>
</table>
References: Research Methodology

The Craft of Research
Wayne C. Booth, Gregory G. Colomb, Joesph M. Williams, Joseph Bizup, and William T. FitzGerald
Q180.55 M4 B66 2016

Designing and Proposing Your Research Project
Jennifer Brown Urban and Bradley Matheus van Eeden-Moorefield
BF76.5 U73 2018

Research Literacy: A Primer for Understanding and Using Research
Jeffrey S. Beaudry and Lynne Miller
Q180.55 M4 B385 2016

The SAGE Handbook of Online Research Methods
Nigel G. Fielding, Raymond M. Lee, and Grant Blank, Eds.
ZA4228 S24 2017

Note: Many general and subject-specific books and eBooks are available about research
Search Strategies & Management

- Construct a search statement
- Identify search key concepts with related terms, descriptors, and synonyms
- Determine types of information needed
- Choose appropriate search tools – databases, Web sites, +
- Search SCC sources, university sources, Web sources, +
- Document your literature search process/results – include search words, sources, +
- Evaluate your sources systematically – I recommend the CRAAP test
- Obtain print or electronic copies of your sources – use interlibrary loan or visit library
The CRAAP Test

Currency
Relevancy
Authority
Accuracy
Purpose

Source: https://www.csuchico.edu/lins/handouts/eval_websites.pdf
Organizing and Citing Your Sources

- Create a NoodleTools Account (Access from SCC Library Web site)
- Enter the citation information for every source
- Code each source according to its purpose / content
- Record key information, including quotes, facts, +
- Write annotations if necessary
- Use NoodleTools in-text citation and source citation capabilities
References: Style Guides

Purdue University, OWL Complete Discipline Listing
https://owl.purdue.edu/owl/research_and_citation/using_research/resources_for_documenting_sources_in_the_disciplines/complete_discipline_listing.html

The Chicago Manual of Style, 17th Edition
Information Desk and Reference Z253 U69 2017

Information Desk Z250.6 B5 S386 2006

A Manual for Writers of Research Papers, Theses, and Dissertations (Turabian), 9th Edition
LB2369 T8 2018

MLA Handbook, 8th Edition
Information Desk and Reference LB 2369 G53 2016

Information Desk BF76.7 P83 2010
Writing a Research Abstract

- What is a research abstract?
  An abstract is a brief summary/outline of your research/project.

- Abstract Writing Considerations
  Title, Authors, Contributors/Mentors, Abstract, References

- Abstract Components:
  An abstract includes an introduction, body, and conclusion.
  What (focus)
  Why (purpose)
  How (methods)
  Results
  Conclusions

- Use NoodleTools in-text citation and source citation capabilities
References: Research Abstracts

Purdue University OWL Writing Lab: Writing Report Abstracts
https://owl.purdue.edu/owl/subject_specific_writing/professional_technical_writing/technical_reports_and_report_abstracts/index.html

Purdue University OWL Writing Lab: Writing Scientific Abstracts Presentation
https://owl.purdue.edu/owl/subject_specific_writing/professional_technical_writing/technical_reports_and_report_abstracts/index.html

University of Oregon Elements of a Good Research Abstract for the Undergraduate Symposium and Beyond
https://undergradsymposium.uoregon.edu/sites/undergradsymposium2.uoregon.edu/files/undergradresearch_infographics_abstracts.pdf

Examples – search Google for undergraduate research symposium or abstracts
Writing a Literature Review

- What is a literature review?
  A literature review describes previous relevant research conducted on your topic. The review presents your work within the existing context. Who else has studied your question / topic? What methodology did they employ?

- Find out what information already exists in your field
- Identify gaps in literature
- Find other people working in your field
- Identify major seminal works
- Identity main methodologies and techniques
- Identity main ideas, conclusions, and theories
- Provide a context for your own research
- Show relationships between previous studies or theories
Writing a Literature Review

- Literature Review Considerations
  How far do you extend the scope of your literature review? When do you stop searching / reading?

- Literature Review Components
  Abstract, Introduction, Body, Conclusion, Bibliography (full list)

- Types of Approaches to writing a literature review
  EXAMPLE: VCU’s Research Questions descriptions:
  PICO: Patient problem or Population, Intervention, Comparison, Outcome(s)
  PEO: Population, Exposure, Outcome(s)
  SPIDER: Sample, Phenomenon of Interest, Design, Evaluation, Research type
  COSMIN: COnsensus-based Standards for selection of Measurement INstruments

- Use NoodleTools annotations, in-text citation and source citation capabilities
References: Research Literature Review

VCU Libraries Research Guides: How to Conduct a Literature Review (Health Sciences)
https://guides.library.vcu.edu/c.php?g=48030&p=3053671

UWF Libraries LibGuides: Literature Review: Conducting & Writing
https://libguides.uwf.edu/litreview
Contact the SCC Librarians

Linda Azen Martin
Seth Daugherty
Joe Geissler
Alice Ho
Barbara Sproat
Lana Wong

SCC Library

Location: Information Desk, L-Building
Phone: 714.628.5005
Web: www.sccollege.edu/library
Ask a Librarian: chat window on Web site
Text: 714.486.0999
Resources

Tiffany Gause  
gause_tiffany@sccollege.edu
Lacy Hedenberg  
hedenberg_lacy@sccollege.edu
SCC Research Symposium Web:  
sccollege.edu/researchsymposium/

SCC Faculty  
Mentoring – assisting with research proposal and process
SCC Library Faculty  
Library Research consultations – locating and citing sources
SCC English Faculty  
Writing Center contacts – writing abstracts
SCC Communications Faculty  
Mentoring – practicing oral presentation skills
SCC Graphics Communications  
Workshop – poster and slide design skills