Writing for the Sciences Workshop Neumann Library Resources

Kate McNally Carter Email: <u>CarterK@uhcl.edu</u> / Phone: 281-283-3914

Important URLs	Ask a Librarian!
Library Homepage:	Phone: 281-283-3910
https://www.uhcl.edu/library/	Text: 281-816-4341
Research Guides by Subject:	Live Chat: https://uhcl.libanswers.com/
https://uhcl.libguides.com/	Email: <u>library@uhcl.edu</u>
Interlibrary Loan:	Appointments:
https://uhcl.illiad.oclc.org/illiad/illiad.dll	https://uhcl.libcal.com/appointments

Search Exercise

- 1. On your own device, go to the library homepage.
- 2. Using either OneSearch (main search box on the homepage) or a Database in your major,
 - a. search for a topic for your current project* (continue to Step 3), OR
 - b. look for interesting articles within your discipline.

3. *If you have a research topic,

- a. Write your topic in the space below:
- b. Brainstorm and write down the two or three key concepts you identified for the topic in the top row of the table below.
- c. Next, think about and write down relevant alternate keywords, synonyms, and related words in the spaces below your main concepts.
- d. Try various combinations of your search terms and make note of any interesting results you find. You might start with two keywords, then find more keywords as you search.

	Concept #1:		Concept #2:		Concept #3:
	OR		OR		OR
Alternative		Α		Α	
Keywords,		Ν		Ν	
Synonyms,		D		D	
& Related					
Words	OR		OR		OR

Example:

Topic: what are the ethical issues surrounding mandatory vaccinations in school children?						
-	Concept #1:		Concept #2:		Concept #3:	
	vaccinations		mandatory		School children	
	OR		OR		OR	
Alternative		Α		Α		
Keywords,	immunizations	Ν	compulsory	Ν	students	
Synonyms,		D		D		
& Related	OR		OR		OR	
Words	inoculation		required		young children	

Topic: What are the ethical issues surrounding mandatory vaccinations in school children?

Example in OneSearch:

After initial search, add limiters for Peer-reviewed Journals and Articles:

Everything O UHCL Books and Media O All UH Books and Media O A Institutional Repository @ UHCL	Articles O Course Reserves			
earch Profile: UHCL EVERYTHING 🔻	Active filters		0 selected	PAGE 1 41 Results Personalize
Search filters Any field contains vaccinations or immunizations or inoculation AND Any field contains contains school children or students and the students<th>Peer-reviewed Journals × Articles × Remember all filters Reset filters Tweak your results</th><th>1</th><th></th><th>ARTICLE COMPULSORY VACCINATION LAWS ARE CONSTITUTIONAL Chemerinsky, Erwin ; Goodwin, Michele Northwestern University law review, 2016-01-01, Vol.110 (3), p.589-615 64 This Essay focuses on the constitutional issues concerning compulsory vacci state should require <u>compulsory vaccination</u> of all <u>children</u>, unless there is a PEER REVIEWED</th>	Peer-reviewed Journals × Articles × Remember all filters Reset filters Tweak your results	1		ARTICLE COMPULSORY VACCINATION LAWS ARE CONSTITUTIONAL Chemerinsky, Erwin ; Goodwin, Michele Northwestern University law review, 2016-01-01, Vol.110 (3), p.589-615 64 This Essay focuses on the constitutional issues concerning compulsory vacci state should require <u>compulsory vaccination</u> of all <u>children</u> , unless there is a PEER REVIEWED
	Expand My Results Sort by Relevance ▼ Limit To ∧ Available online Open Access	2		

Example in MEDLINE with Full Text (EBSCO):

Apply specialized limiters for **Publication Type**, Age, etc. either before or after the initial search:

New Search	MeSH 20	22 Publications Images Indexes			
EBSCOhost		g: MEDLINE with Full Text <u>Choose Databases</u>	Select a Field (optional) -	Search	
	AND -	mandatory or compulsory or required	Select a Field (optional) -	<u>Clear</u> ?	
	AND +	school children or students	Select a Field (optional) -	(+) -	
	Basic Sea	arch Advanced Search Search History	Cancer		
			Publication Interactive T Interview Introductory Journal Artic	y Journal Article	

Search Tips

and	friendship AND online	narrows results by finding both terms
	social networks	
or	cognition OR intuition	broadens results by finding either term
not	attention span NOT adhd	narrows by excluding records that contain <i>adhd</i>
* (wildcard)	motivat*	broadens by finding motivate, motivates, motivation, etc.

- Identify your most important keywords or short, common phrases
- Use AND, OR, possibly NOT, and when appropriate, wildcards (*)
 - divorce and risk factors
 - o (anxiety or stress) and resilien*
- Narrow results by restricting terms to a specific field (subject terms, abstract, title, etc.)
- Narrow results with limiters (peer-reviewed, document type, language, etc.)
- Narrow results by adding additional search terms/concepts with AND
 - (anxiety or stress) and resilien* and college students
- Narrow results by using quotation marks for an "exact phrase"
- Broaden results by adding alternative search terms with OR
 - o (divorce or marital separation) and risk factors
 - When using subject terms, include any relevant narrower terms
 - In MEDLINE with Full Text (EBSCO), consider using the Explode feature in the subject thesaurus (MeSH: medical subject headings)
- Broaden results by simplifying your search—remove less critical concepts and limiters
- If you're using **OneSearch**:
 - Syntax for a nested search if you're not using advanced search:
 - (shy* OR timid*) AND (resilience OR "coping behavior")
 - Select desired limiters (filters/facets) on results screen
- When researching a topic in depth, don't limit results to full text. If a database doesn't provide full text, use **Find It** (a) **UHCL** links in the results to check for full text from another source. If you can't find full text, look for a link to submit an **article request** to obtain the article through the library's **ILLiad** interlibrary loan service.
- Check the works cited list in relevant documents for other resources that could be helpful
- Try more than one database if needed
- When you have questions or problems, ask a librarian

	OneSearch	Subject Databases
Search Scope	Searches across almost all UHCL	Usually searches a single database's subject-
_	databases & UH System library	specific index (which may or may not include
	physical resources (books, media, etc.)	full text)
Search Strategy	Allows natural language searching	Typically require use of keywords and
	(long phrases are okay, similar to	Boolean operators
	Google, but keywords will work better)	-
Search Features	Somewhat limited search functionality	Subject-specific limiters and enhanced search
	(limiters are generalized)	functions are often available, with high
		variance between databases

Comparing OneSearch vs. Subject Databases

Recommended Science Subject Databases

When identifying a suitable database, make note of the descript to understand its contents and special features, including:

- Subject coverage (specific disciplines or multidisciplinary/general coverage),
- Types of resources included (articles, conference proceedings, trade publications), and
- Full text availability (most databases include some full text; click "Find It @ UHCL" to link to other sources or request through ILLiad).

Identifies articles and references from journals in science, the social sciences, and art and humanities; selected full text available via Find It @ UHCL; results can be sorted by times cited; use Cited Reference search to find works that cite an earlier article or publication
Full text articles from journals in science and medicine, including PLOS ONE, PLOS Biology, PLOS Genetics, PLOS Medicine, PLOS Pathogens, and more
Indexes biomedical and life sciences research in theoretical and applied biology; provides organism, taxa, development stage, chemical role, and other biology-specific limiters
Open-access archive for e-print research papers in physics, mathematics, computer science, and more
Selected full text articles from biomedical and related journals, with clinical guidelines and more from the National Library of Medicine
Indexes American Mathematical Society journals, books, and proceedings, with selected full text via Find It @ UHCL
Selected full text articles from Elsevier journals in the physical sciences/engineering, life sciences, health sciences, and social sciences/humanities
Selected full text articles from journals, trade, and popular magazines covering scientific and technical fields
Selected full text articles from journals, technical reports, books, and more in chemistry, biology, biotechnology, and engineering; first-time user registration required
Selected full text for journal articles and proceedings of the Institute of Electrical and Electronics Engineers (IEEE) and the Institution of Engineering and Technology; includes full text of active IEEE standards
Selected full text articles from physics-related journals; includes indexing for ProQuest Dissertations and Theses results
Includes UHCL subscriptions; off-campus access restricted to UHCL users; indexes "biomedical literature from MEDLINE, life science journals, and online books" with selected full text
Selected full text articles from journals in science, engineering, and technology; plus conference proceedings, reports, books, and more
Selected full text articles on natural science, engineering and technology, from scholarly, trade, and industry journals, technical reports, and proceedings