

Sustainable Teaching Strategies from Chemistry Liaison

University of Michigan Library, 919 S. University Ave., Ann Arbor, MI, 48109-1185

Chemistry department faculty list librarian information I undergraduate and graduate courses as a primary nee that subject specialized information literacy instruction students' assignments as compared to general information

Teaching 2017-2018 (15 classes)

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Class	Name	Audience	Required	Attendance (# Sessions)
CHEM 120	First Year Seminar in Chemistry	Freshmen	BS, NS	18
CHEM 125	General Chemistry Laboratory I	Undergrad	BS, NS	30
CHEM 303	Introductory Bioinorganic Chemistry	Undergrad	BS, NS	14, 8
CHEM 353	Introduction to Biochem Res Tech & Sci Writing	Sophomore/Junior	BS, ULWR	20
CHEM 420	Intermediate Organic Chemistry	Junior/Senior	BS	102
CHEM 455	Special Topics in Biochemistry	Undergrad & Grad	BS	30, 17
CHEM 482	Synthesis and Characterization	Senior	BS, ULWR	31 (2)
CHEM 616	Advanced Inorganic Chemistry	Grad		11 (3)
Writing 400	Advanced Rhetoric and Research	Sophomore/Junior	ULWR	6
Writing 410	Quantitative Analysis and Writing in the Disciplines	Undergrad & Grad	ULWR, QR/2	10

CHEM Librarian Instruction Request

Course Name

Date you would like me to teach (+ alternative)

Time you would like me to teach

Location

Student population

How many students

For which assignment my instruction would be most helpful

What are the most common mistakes students make on this assignment

What do students struggle with most?

What would you change this year?

Send syllabus, details of assignment, add Librarian to Canvas

Student Pre-assessment Survey for Scientific Writing Workshop

Your name	
Which session will you	u a
What is the biggest ch	nal
course paper	
What is your preferred	il k
What is your preferred	d c
Have you seen the Ch	nei
Library Guides	
Chemistry	<u>htt</u>
Reaxys	<u>htt</u>
ChemDraw	<u>htt</u>
Wikipedia	<u>htt</u>
SciFinder	<u>htt</u>

Citation manag soft	ł	1
Citation help	ł	1

Michigan Academic Library Association Annual Conference, May 17-18, Lansing, MI

Yulia Sevryugina

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iterature search database citation management software mistry library guide

tp://guides.lib.umich.edu/chemistry

tp://guides.lib.umich.edu/c.php?g=282993&p=1885556

tp://guides.lib.umich.edu/chembiooffice

tp://guides.lib.umich.edu/c.php?g=283187&p=1886529

tp://guides.lib.umich.edu/scifinder

http://guides.lib.umich.edu/citationmanagementoptions

http://guides.lib.umich.edu/citationhelp

Topics	Details	Classes
Databases: PubMed, SciFinder, Reaxys	 What is the scope of each database and how important is to use a combination Where to find tutorials How to construct a search (special terms, BOOLEAN operators) Search by title, author, topic, structure, property How to find related papers How to apply various filters How to retrieve the article How to use citation management software How to save/export searches How to keep updated with the topic What can we know about the journal (can we trust it?) What are PMID and DOI Where to find the information about the PI Various types of the research paper Interlibrary loan 	CHEM 120 CHEM 303 CHEM 353 CHEM 420 CHEM 455 Writing 400 Writing 410
Scientific writing	 Types of research articles Structure of the research article Literature search databases Citation management software Understanding the topic Preparing an outline Writing each specific section of the article Style of the research article: font, formatting, wording Active vs passive voice Sentence structure Preparing bibliography Data visualization software Plagiarism 	CHEM 303 CHEM 482 Writing 400 Writing 410
ChemDraw	 Most common mistakes in structure presentation ChemDraw for publications Alternative tools 	CHEM 482
Crystallography	 Crystallographic symmetry Crystallographic data Crystal structure solution 	CHEM 616
Wikipedia	 Wikipedia community Five pillars of Wikipedia Selecting a topic Editing techniques 	CHEM 455
Navigating the Library	 Introduction and contact information Library structure and resources available Recommended resources for Chemistry Research Library guides Tour of the library 	CHEM 120 CHEM 125 CHEM 303 CHEM 353 Writing 400 Writing 410