Sustainable Teaching Strategies from Chemistry Liaison

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Chemistry department faculty list librarian information literacy instruction for upper undergraduate and graduate courses as a primary need and expectation. Professors find that subject specialized information literacy instruction yields better outcomes for their students’ assignments as compared to general information literacy instruction.

Teaching 2017-2018 (15 classes)

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

ChemLibrarian 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 attend

What is the biggest challenge for you in writing the assigned course paper

What is your preferred literature search database

What is your preferred citation management software

Have you seen the Chemistry library guide

Library Guides

Chemistry
http://guides.lib.umich.edu/chemistry

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

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

Wikipedia
http://guides.lib.umich.edu/c.php?g=282917&p=1886529

SciFinder
http://guides.lib.umich.edu/scifinder

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

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

Topics

ChemDraw

Crystallography

Wikipedia

Navigating the Library

Databases:

PubMed,
SciFinder,
Reaxys

Details

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Have you seen the Chemistry library guide

Librarian to Canvas

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Databases:

PubMed,
SciFinder,
Reaxys

Details

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 does citation number tells us about research articles

What is the biggest challenge for you in writing the assigned course paper

What is your preferred literature search database

What is your preferred citation management software

Have you seen the Chemistry library guide

Chemistry

What are the most common mistakes students make on this assignment

What do students struggle with most?

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Librarian to Canvas

Send syllabus, details of assignment, add Librarian to Canvas

MSSAL Annual Conference, May 17-18, Lansing, MI