

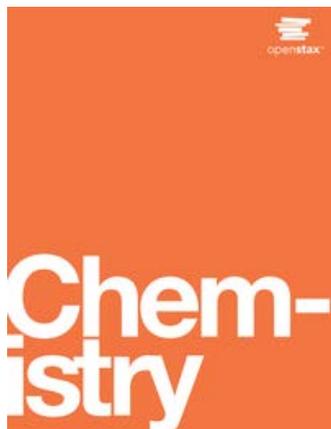


Faculty Review of Open eTextbooks

The [California Open Educational Resources Council](http://www.cool4ed.org) has designed and implemented a faculty review process of the free and open etextbooks showcased within the California Open Online Library for Education (www.cool4ed.org). Faculty from the California Community Colleges, the California State University, and the University of California were invited to review the selected free and open etextbooks using a rubric. Faculty received a stipend for their efforts and funding was provided by the State of California, the William and Flora Hewlett Foundation, and the Bill and Melinda Gates Foundation.

Textbook Name:

Chemistry



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Textbook Authors:

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Format

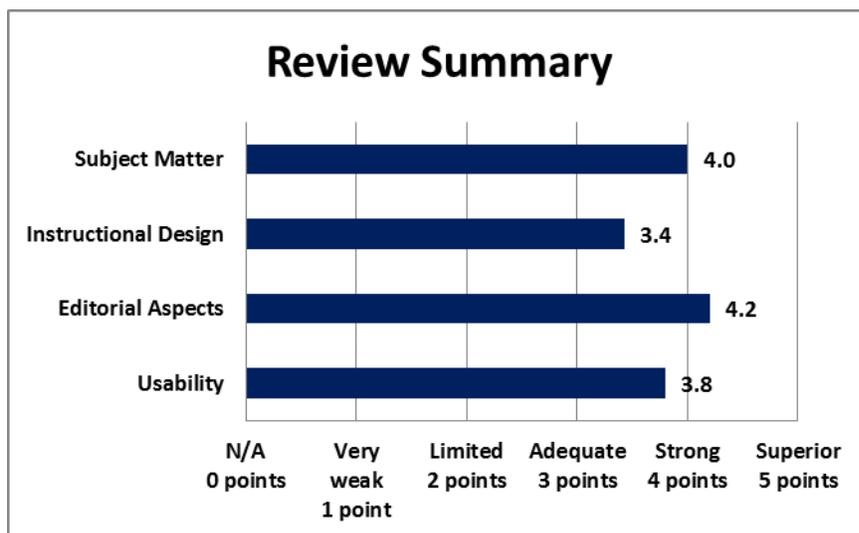
Reviewed:

[Online](#)

A small fee may be associated with various formats.

Date Reviewed:

December 2015



California OER Council eTextbook Evaluation Rubric

CA Course ID: [CHEM 120S](#)

Subject Matter (30 possible points)	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Is the content accurate, error-free, and unbiased?					X	
Does the text adequately cover the designated course					X	

with a sufficient degree of depth and scope?						
Does the textbook use sufficient and relevant examples to present its subject matter?						X
Does the textbook use a clear, consistent terminology to present its subject matter?						X
Does the textbook reflect current knowledge of the subject matter?						X
Does the textbook present its subject matter in a culturally sensitive manner? (e.g. Is the textbook free of offensive and insensitive examples? Does it include examples that are inclusive of a variety of races, ethnicities, and backgrounds?)						X

Total Points: 24 out of 30

Please provide comments on any aspect of the subject matter of this textbook:

- Comprehensive with good examples; modern instrumentation included as application to theory (Mass spec, X-ray crystallography).
- Good images, nice links to examples or experimental work. A good way to ensure that students are on an even playing field.

Instructional Design (35 possible points)	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Does the textbook present its subject materials at appropriate reading levels for undergrad use?					X	
Does the textbook reflect a consideration of different learning styles? (e.g. visual, textual?)					X	
Does the textbook present explicit learning outcomes aligned with the course and curriculum?					X	
Is a coherent organization of the textbook evident to the reader/student?					X	
Does the textbook reflect best practices in the instruction of the designated course?					X	
Does the textbook contain sufficient effective ancillary materials? (e.g. test banks, individual and/or group activities or exercises, pedagogical apparatus, etc.)					X	
Is the textbook searchable?	X					

Total Points: 24 out of 35

Please provide comments on any aspect of the instructional design of this textbook:

- The text contains a good number of homework problems, both examples and end of the chapter problems with key to the odd problems at the back of the book.
- The many links that provide visual reinforcement or examples is great.
- The organization is good.
- I like the fact that the Ideal Gas Law is presented prior to the others which can be derived from it.

Editorial Aspects (25 possible points)	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Is the language of the textbook free of grammatical, spelling, usage, and typographical errors?					X	
Is the textbook written in a clear, engaging style?					X	
Does the textbook adhere to effective principles of design? (e.g. are pages laid out and organized to be clear and visually engaging and effective? Are colors, font, and typography consistent and unified?)					X	
Does the textbook include conventional editorial features? (e.g. a table of contents, glossary, citations and further references)					X	
How effective are multimedia elements of the textbook? (e.g. graphics, animations, audio)						X

Total Points: 21 out of 25

Please provide comments on any editorial aspect of this textbook:

- The glossary is actually found in each of the book's chapters but can easily be found by use of the index at the back of the book.

Usability (25 possible points)	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
Is the textbook compatible with standard and commonly available hardware/software in college/university campus student computer labs?					X	
Is the textbook accessible in a variety of different electronic formats? (e.g. .txt, .pdf, .epub, etc.)					X	
Can the textbook be printed easily?					X	
Does the user interface implicitly inform the reader how to interact with and navigate the textbook?				X		
How easily can the textbook be annotated by students and instructors?					X	

Total Points: 19 out of 25

Please provide comments on any aspect of access concerning this textbook:

- Nearly error free -- and this is unique amongst the open resource texts I've looked at thus far.
- This book is easily the most accessible I've seen in a free format.
- Nice format, uniform, easy to navigate: All of these properties make this a help and not a hindrance to student learning.

Overall Ratings	Not at all (0 pts)	Very Weak (1 pt)	Limited (2 pts)	Adequate (3 pts)	Strong (4 pts)	Superior (5 pts)
What is your overall impression of the textbook?					X	
How willing would you be to adopt this book?	Not at all (0 pts)	Strong reservations (1 pt)	Limited willingness (2 pts)	Willing (3 pts)	Strongly willing (4 pts)	Enthusiastically willing (5 pts)
					X	

Total Points: 8 out of 10

Overall Comments

If you were to recommend this textbook to colleagues, what merits of the textbook would you highlight?

- Of course the great asset is that this text for a two semester course is free!
- Content is competitive with good textbooks for gen chem on the market.
- The links in the text cover a wide variety of topics, come from good sources, and will definitely contribute to increased student understanding of theoretical, conceptual and applicable material in the text.
- Lots of homework problems, both examples and end-of-the-chapter problems. This makes for lots of practice materials for students which is most always necessary for student success.
- Easy to print. Students can easily be required to bring the correct chapter being studied to class without forcing them to carry a 35 pound book!

What areas of this textbook require improvement in order for it to be used in your courses?

- I would like to see an area at the end of the chapter problems that had more involved and cumulative problem for the students.

We invite you to add your feedback on the textbook or the review to the [textbook site in MERLOT](#)
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For questions or more information, contact the [CA Open Educational Resources Council](#).



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