

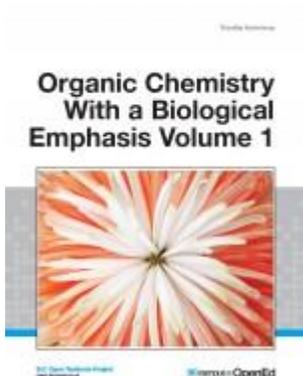


## Faculty Review of Open eTextbooks

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](http://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:

### Organic Chemistry With a Biological Emphasis Volumes I & II



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Format

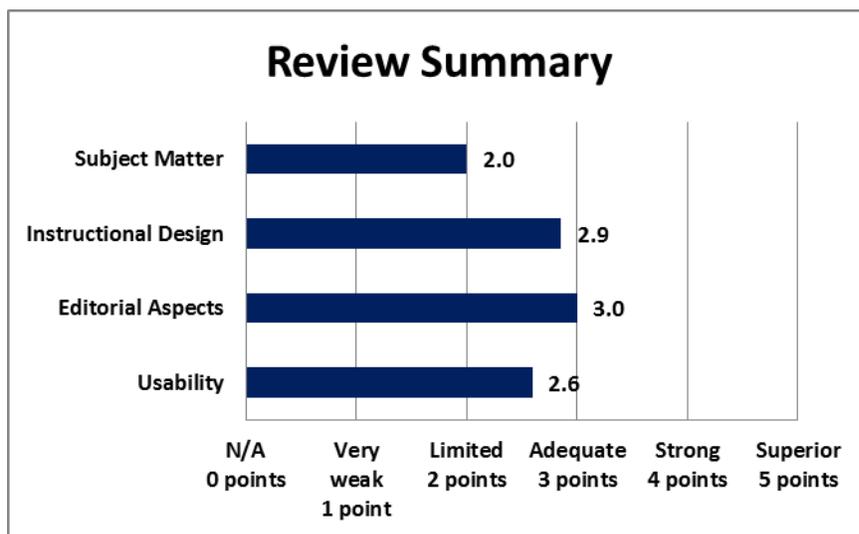
Reviewed:

[Online](#)

A small fee may be associated with various formats.

Date Reviewed:

August 2015



### California OER Council eTextbook Evaluation Rubric

CA Course ID: [CHEM 160S](#)

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 with a sufficient degree of depth and scope?		X				

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: 12 out of 30

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

- This textbook assumes a high degree of general chemistry and organic chemistry terminology and basic concepts prior knowledge. This textbook is appropriate for advanced classes but not for the sophomore organic chemistry two semester sequence.
- The approach of the textbook is to exemplify organic reactivity by analyzing enzyme mediated reactions in biological relevant compounds. Although it includes excellent examples, it barely touches on several of the organic chemistry curriculum topics such as naming, conformational analysis, stereochemistry or functional group reactivity.
- Images are adequate.
- The solutions manual includes answers to example problems and end-of-chapter problems.

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: 20 out of 35

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

- This textbook is available in a downloadable pdf and as a website page.
- The website format contains functioning links.
- Links lead to additional online resources, such as Kahn Academy lectures; reference tables; or the exercises solution section.
- The links are lost in the pdf format.

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: 15 out of 25

Please provide comments on any editorial aspect of this textbook.

- There are several typographical errors through the textbook.
- The textbook describes "real-life" examples to engage students.
- Some of the chemical structures are complex which might actually distract students away from the concepts.
- Chapters are consistently laid out throughout the textbook.
- A table of contents is given.
- Further references are given.
- There are a few links to animations.

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: 13 out of 25

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

- The online version of the textbook is easy to navigate.

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				
	Not at all (0 pts)	Strong reservations (1 pt)	Limited willingness (2 pts)	Willing (3 pts)	Strongly willing (4 pts)	Enthusiastically willing (5 pts)
How willing would you be to adopt this book?	X					

Total Points: 1 out of 10

## Overall Comments

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

- This is an appropriate textbook for advanced organic chemistry applications. It is not appropriate for the two-semester organic chemistry sophomore sequence for science majors, C-ID CHEM 160S.

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

- Explicitly include the required topics listed in the general course description for CHEM 160S.

We invite you to add your feedback on the textbook or the review to [the textbook site in MERLOT](#) (Please [register](#) in MERLOT to post your feedback.)



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