Faculty Review of Open eTextbooks

The California Open Educational Resources Council 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 etextboks 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:

Mooculus: Calculus

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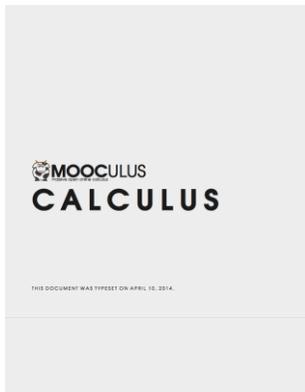
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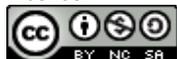
Mooculus: Calculus by David Guichard, Neal Koblitz, and H. Jerome Keisler is licensed under a Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License

Find it: **eTextbook Website**

Textbook Authors:

David Guichard, Neal Koblitz, and H. Jerome Keisler

Reviewed by:

Mark Eastman

Institution:

## University of California, Santa Cruz

Title/Position:

Professor

Format Reviewed:

Online

A small fee may be associated with various formats.

Review Summary

Subject Matter	2.8
Instructional Design	3.4
Editorial Aspects	3.2
Usability	2.2

N/A 0 points · Very weak 1 point · Limited 2 points · Adequate 3 points · Strong 4 points · Superior 5 points
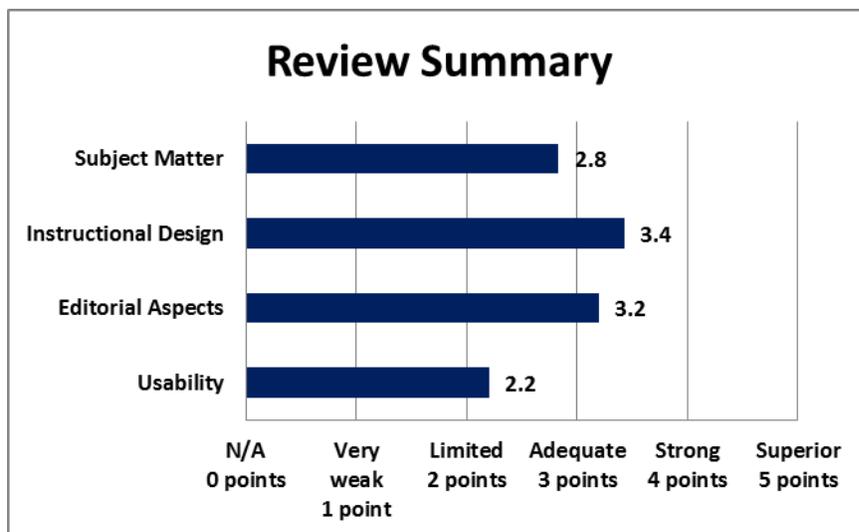
Date Reviewed:

December 2015

California OER Council eTextbook Evaluation Rubric
CA Course ID: MATH 210

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		

	N/A (0 pts)	Very Weak (1pt)	Limited (2 pts)	Adequate (3pts)	Strong (4 pts)	Superior (5 pts)
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: 17 out of 30

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

- The material is presented in an order that follows most calculus texts. Most explanations are adequate, with one or two examples presented.
- There are many figures to help explain the concepts.
- For the most part the exercise sets are more than adequate.

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:

- Key concepts in each section are boxed in with a shaded background.
- Figures are presented on most pages in a separate column.

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 latid0out 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: 16 out of 25

Please provide comments on any editorial aspect of this textbook.

- This text was only available in PDF format; I was also able to view the text on my tablet using iBooks. I was unable to use any multimedia to view illustrations.

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: 11 out of 25

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

- There was no chapter/content list except for the table of contents. In order to jump to a section, I had to go back to the beginning and find the chapter I wanted in the table of contents in order to get to the chapter I wanted to review.

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: 7 out of 10

Overall Comments

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

- With the exception of the chapter on curve sketching, the course material is presented in an order that is consistent with most standard calculus texts.
- The exercise sets are more than sufficient for most of the sections.
- The layout of the text is very good, with key points (definitions, theorems, formulas) boxed in, and many figures in each section to help with visualization of the material.

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

- It would be nice to have a sidebar with various chapters listed to help with navigation within the text.
- The best navigation is on on a computer; it would be helpful to have the ability to view this text in multiple formats.

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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For questions or more information, contact the CA Open Educational Resources Council.