

“I paid \$0 for my textbooks!”

Open Educational Resources

Chloe Lei | OER Librarian | Oct 22, 2019

How open educational resources make course materials affordable

Warm-up Questions

Overview

- What are OER?
- Why OER?
- What about Quality?
- Open licensing
- The OER Project @ Concordia

What are OER?

UNESCO Definition

Open Educational Resources (OER) are teaching, learning and research materials in any medium – digital or otherwise – that reside in the public domain or have been released under an open license that permits no-cost access, use, adaptation and redistribution by others with no or limited restrictions.

A Simpler Definition

Free

*No Cost
No Barriers*

Permissions

Share Download Adapt

Open
Educational
Resources

OER come in many types



Textbooks



Videos



Audio



Question Banks



Simulations



Syllabi



Curricula



Courses



Assessments



OER can be accessed in many ways

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Subjects Technology What we do Login

Introductory Business Statistics

[Preface](#)

1. Sampling and Data

- [Introduction](#)
- [1.1. Definitions of Statistics, Probability, and Key Terms](#)
- [1.2. Data, Sampling, and Variation in Data and Sampling](#)
- [1.3. Levels of Measurement](#)
- [1.4. Experimental Design and Ethics](#)
- [1.5. Key Terms](#)
- [1.6. Chapter Review](#)
- [1.7. Homework](#)
- [1.8. References](#)
- [1.9. Solutions](#)

2. Descriptive Statistics

- [Introduction](#)
- [2.1. Display Data](#)
- [2.2. Measures of the Location of the Data](#)
- [2.3. Measures of the Center of the Data](#)
- [2.4. Sigma Notation and Calculating the Arithmetic Mean](#)
- [2.5. Geometric Mean](#)
- [2.6. Skewness and the Mean, Median, and Mode](#)
- [2.7. Measures of the Spread of the Data](#)
- [2.8. Key Terms](#)
- [2.9. Chapter Review](#)
- [2.10. Formula Review](#)
- [2.11. Practice](#)
- [2.12. Homework](#)
- [2.13. Bringing It Together: Homework](#)
- [2.14. References](#)
- [2.15. Solutions](#)

Book details Instructor resources Student resources Partner resources

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Summary

Introductory Business Statistics is designed to meet the scope and sequence requirements of the one-semester statistics course for business, economics, and related majors. Core statistical concepts and skills have been augmented with practical business examples, scenarios, and exercises. The result is a meaningful understanding of the discipline, which will serve students in their business careers and real-world experiences.

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Errata

All OpenStax textbooks undergo a rigorous review process. However, like any professional-grade textbook, errors sometimes occur. The good part is, since our books are web-based, we can make updates periodically. If you have a correction to suggest, submit it here. We review your suggestion and make necessary changes.

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Business

- [Introduction to Business](#)
- [Business Ethics](#)
- [Accounting Volume 1](#)
- [Accounting Volume 2](#)
- [Statistics](#)
- [Management](#)
- [Entrepreneurship](#)
- [Organizational Behavior](#)

OER can be accessed in many ways

Fundamentals of Business: Canadian Edition

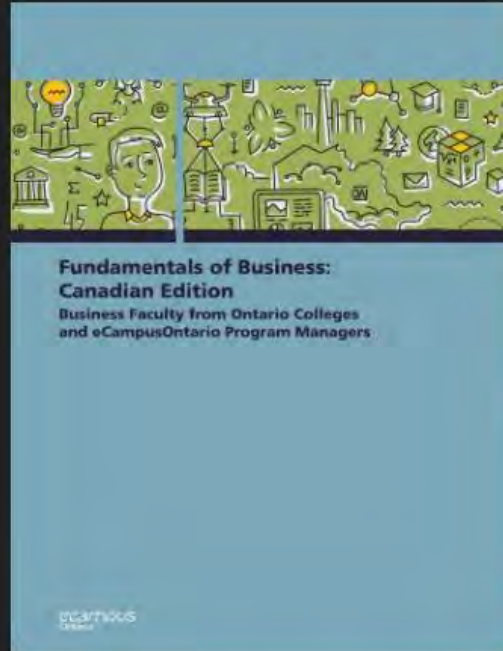
Canadian Edition

Business Faculty from Ontario Colleges and eCampusOntario
Program Managers



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READ BOOK



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5R

Retain

Make and own copies

Reuse

Use in a wide range of ways

Revise

Adapt, adjust, or modify

Remix

Combine with other content

Redistribute

Share with others



OER in the Open Ecosystem

Open Access

Open Source

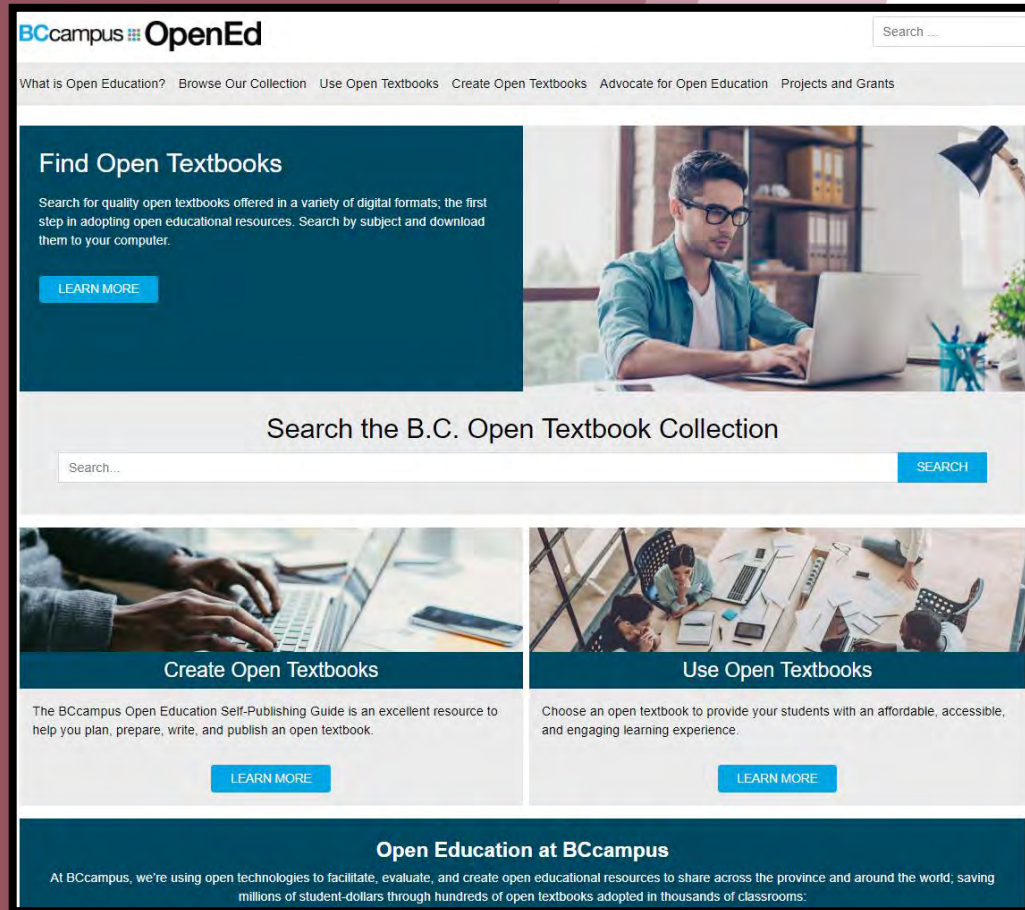
Open Data

Open Science

Open Scholarship

...

OER Development in Canada



The screenshot shows the BCcampus OpenEd website. At the top, there's a navigation bar with links: "What is Open Education?", "Browse Our Collection", "Use Open Textbooks", "Create Open Textbooks", "Advocate for Open Education", and "Projects and Grants". Below this is a large section titled "Find Open Textbooks" with a description: "Search for quality open textbooks offered in a variety of digital formats; the first step in adopting open educational resources. Search by subject and download them to your computer." and a "LEARN MORE" button. To the right of this text is an image of a man working on a laptop. Below the "Find Open Textbooks" section is a search bar labeled "Search the B.C. Open Textbook Collection" with a "SEARCH" button. Further down, there are two more sections: "Create Open Textbooks" and "Use Open Textbooks", each with a description and a "LEARN MORE" button. At the bottom, there's a section titled "Open Education at BCcampus" with a paragraph about using open technologies to facilitate, evaluate, and create open educational resources.

BCcampus OpenEd

What is Open Education? Browse Our Collection Use Open Textbooks Create Open Textbooks Advocate for Open Education Projects and Grants

Find Open Textbooks

Search for quality open textbooks offered in a variety of digital formats; the first step in adopting open educational resources. Search by subject and download them to your computer.

LEARN MORE

Search the B.C. Open Textbook Collection

SEARCH

Create Open Textbooks

The BCcampus Open Education Self-Publishing Guide is an excellent resource to help you plan, prepare, write, and publish an open textbook.

LEARN MORE

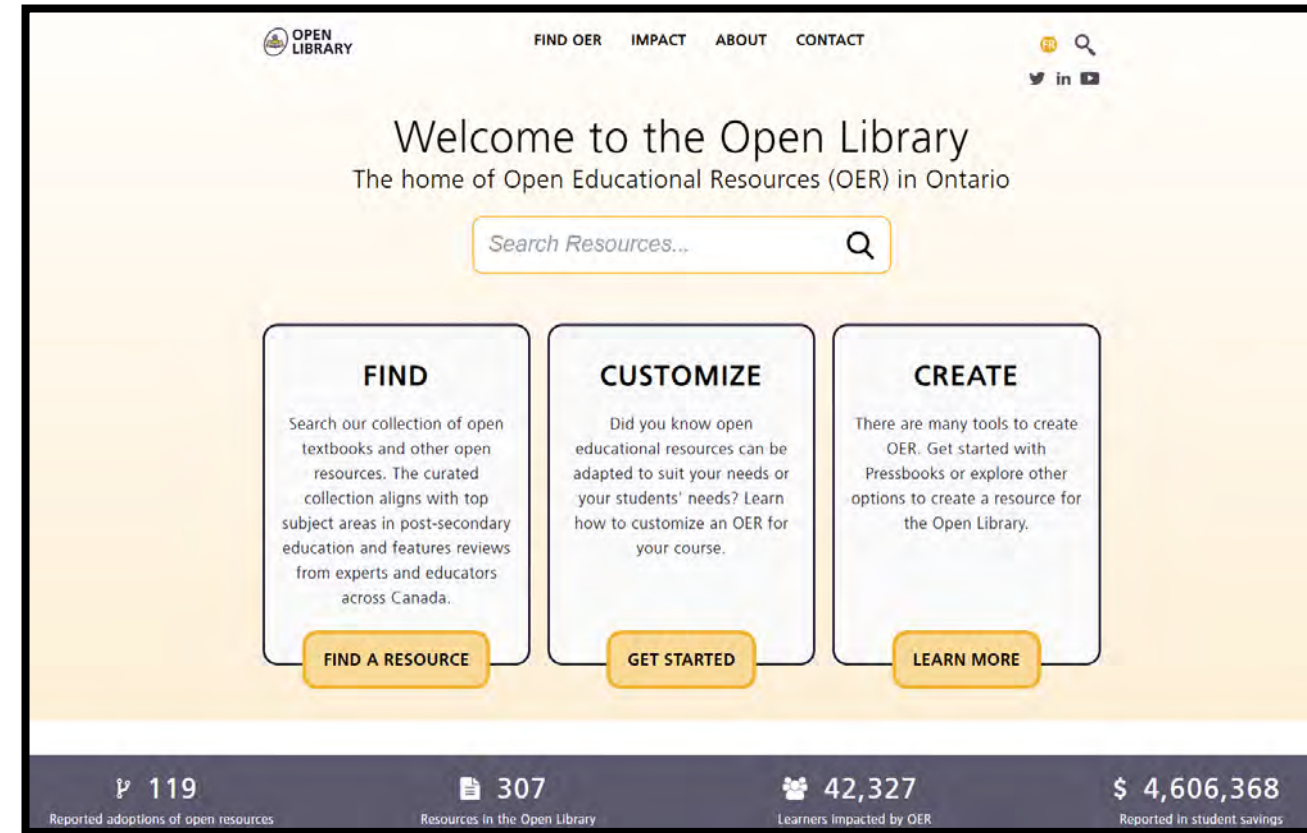
Use Open Textbooks

Choose an open textbook to provide your students with an affordable, accessible, and engaging learning experience.

LEARN MORE

Open Education at BCcampus

At BCcampus, we're using open technologies to facilitate, evaluate, and create open educational resources to share across the province and around the world, saving millions of student-dollars through hundreds of open textbooks adopted in thousands of classrooms.



The screenshot shows the Open Library website. At the top, there's a navigation bar with links: "FIND OER", "IMPACT", "ABOUT", and "CONTACT". Below this is a large section titled "Welcome to the Open Library" with the subtitle "The home of Open Educational Resources (OER) in Ontario". Below the subtitle is a search bar labeled "Search Resources...". Further down, there are three main sections: "FIND", "CUSTOMIZE", and "CREATE". Each section has a description and a "LEARN MORE" button. At the bottom, there's a footer with statistics: "119 Reported adoptions of open resources", "307 Resources in the Open Library", "42,327 Learners impacted by OER", and "\$ 4,606,368 Reported in student savings".

OPEN LIBRARY

FIND OER IMPACT ABOUT CONTACT

Welcome to the Open Library

The home of Open Educational Resources (OER) in Ontario

Search Resources...

FIND

Search our collection of open textbooks and other open resources. The curated collection aligns with top subject areas in post-secondary education and features reviews from experts and educators across Canada.

FIND A RESOURCE

CUSTOMIZE

Did you know open educational resources can be adapted to suit your needs or your students' needs? Learn how to customize an OER for your course.

GET STARTED

CREATE

There are many tools to create OER. Get started with Pressbooks or explore other options to create a resource for the Open Library.

LEARN MORE

119 Reported adoptions of open resources

307 Resources in the Open Library

42,327 Learners impacted by OER

\$ 4,606,368 Reported in student savings

Why OER?

Benefits of OER



Significant cost savings



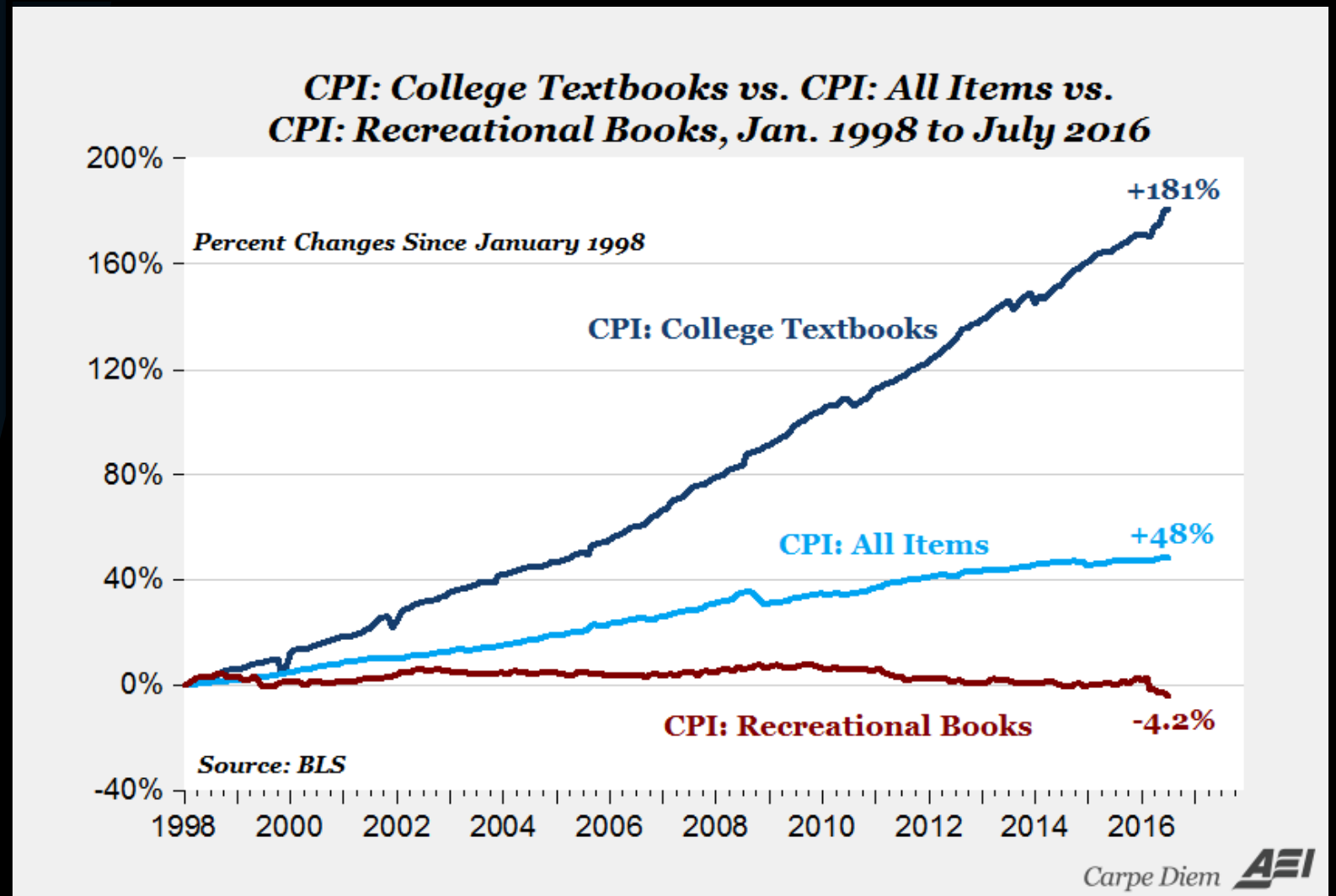
How it feels like to be a student



I'm so ready for college!
Time to embrace learning
and new experiences
with arms wide –



The Astronomical Rise in Textbook Prices (1998 – 2016)



Benefits of OER



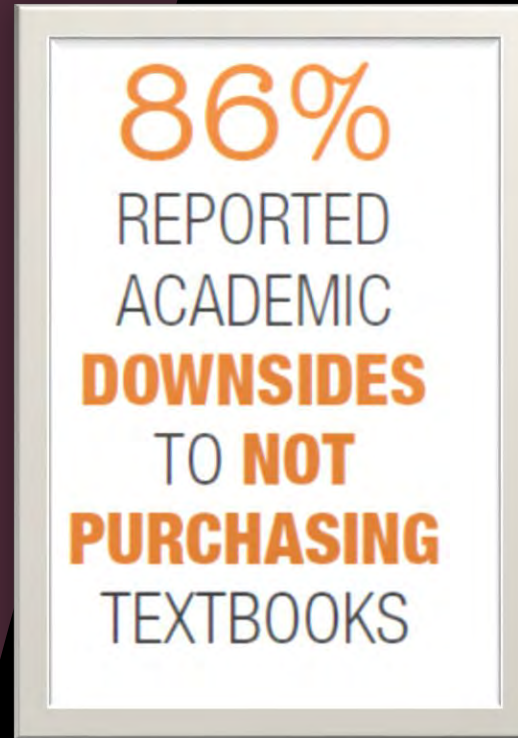
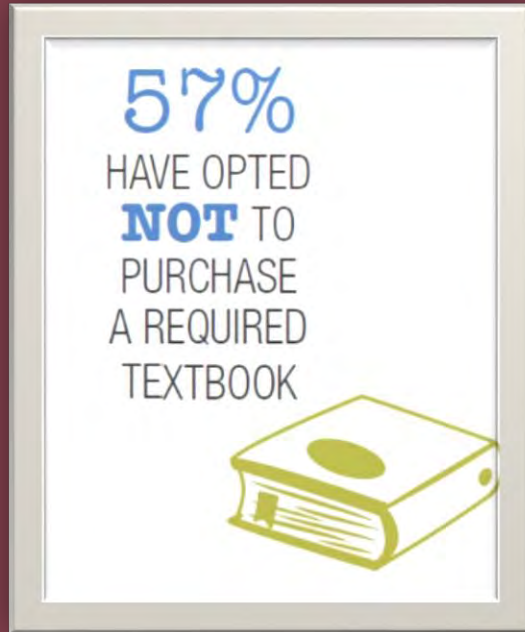
Significant cost savings



Equity of access for all with no restrictions



When textbooks get too expensive...



“Alternatives”

- Use an older edition
- Use the library copy
- Share with classmates/friends
- Photocopy the whole book
- Download online from questionable platforms
- ...

The case of “digital access” or “Inclusive access”

ENTERPRISES

Pearson Signals Major Shift From Print by Making All Textbook Updates ‘Digital First’

By Tony Wan Jul 15, 2019



Benefits of OER



Significant cost savings



Easily customize course materials to suit local context and teaching needs



Equity of access for all, and can be kept forever

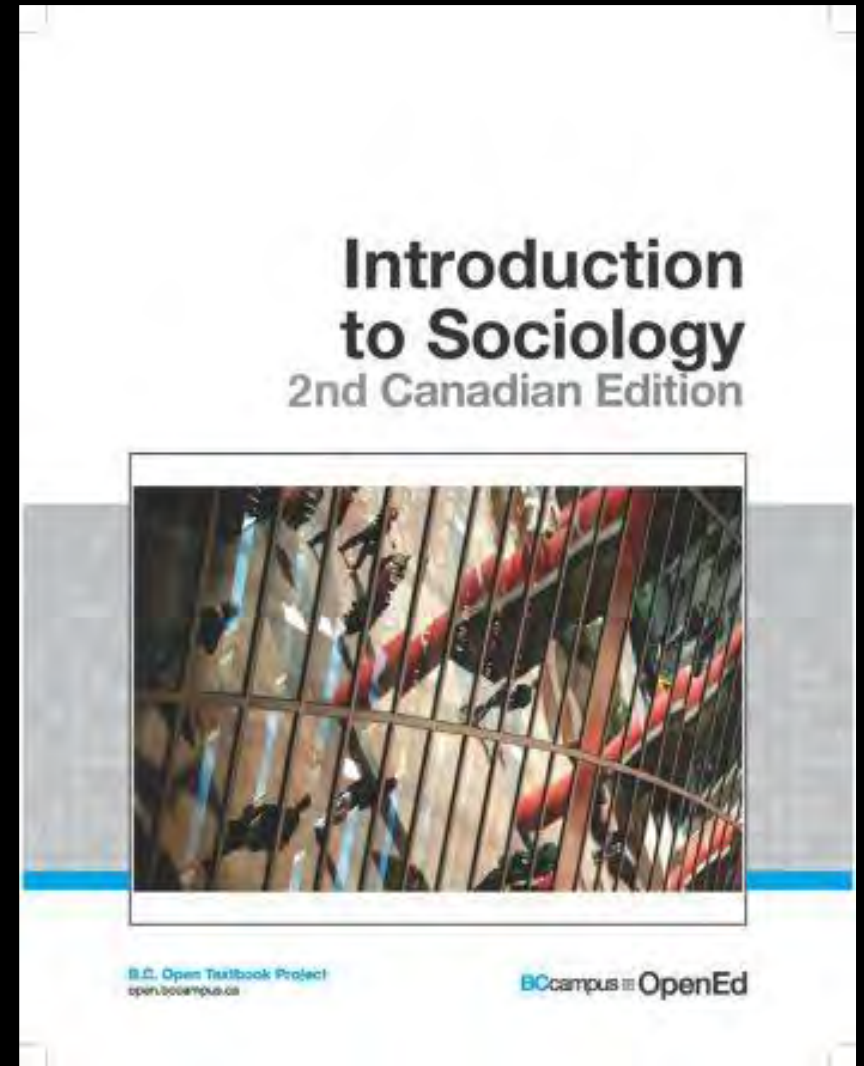


Customize to suit local need

Changes to this book, as a whole, were made to achieve the following goals.

1. Replace U.S.-centric content with Canadian content. This included examples, case studies, significant figures, perspectives and, more pragmatically, spelling, idioms, measurements and grammatical structure and style.
2. Add feminist theory and feminist perspectives throughout the text.
3. Add Canadian aboriginal perspectives and content.
4. Added chapter on Religion

Key Terms, Section Summary, Quiz, Further Research, and References in each chapter have been updated to reflect new chapter content.



Benefits of OER



Significant cost savings



Easily customize course materials to suit local context and teaching needs



Equity of access for all, and can be kept forever



Positive impact on learning experience and academic success

Impact on student efficacy and user perceptions

Educational Technology Research and Development
pp 1–24 | [Cite as](#)

Open educational resources, student efficacy, and user perceptions: a synthesis of research published between 2015 and 2018

Authors [Authors and affiliations](#)

John Hilton III 

[Open Access](#) | Research Article
First Online: 06 August 2019

223 Shares 4.7k Downloads

Abstract

Although textbooks are a traditional component in many higher education contexts, their increasing price have led many students to forgo purchasing them and some faculty to seek substitutes. One such alternative is open educational resources (OER). This present study synthesizes results from sixteen efficacy and twenty perceptions studies involving 121,168 students or faculty that examine either (1) OER and student efficacy in higher education settings or (2) the perceptions of college students and/or instructors who have used OER. Results across these studies suggest students achieve the same or better learning outcomes when using OER while saving significant amounts of money. The results also indicate that the majority of faculty and students who have used OER had a positive experience and would do so again.

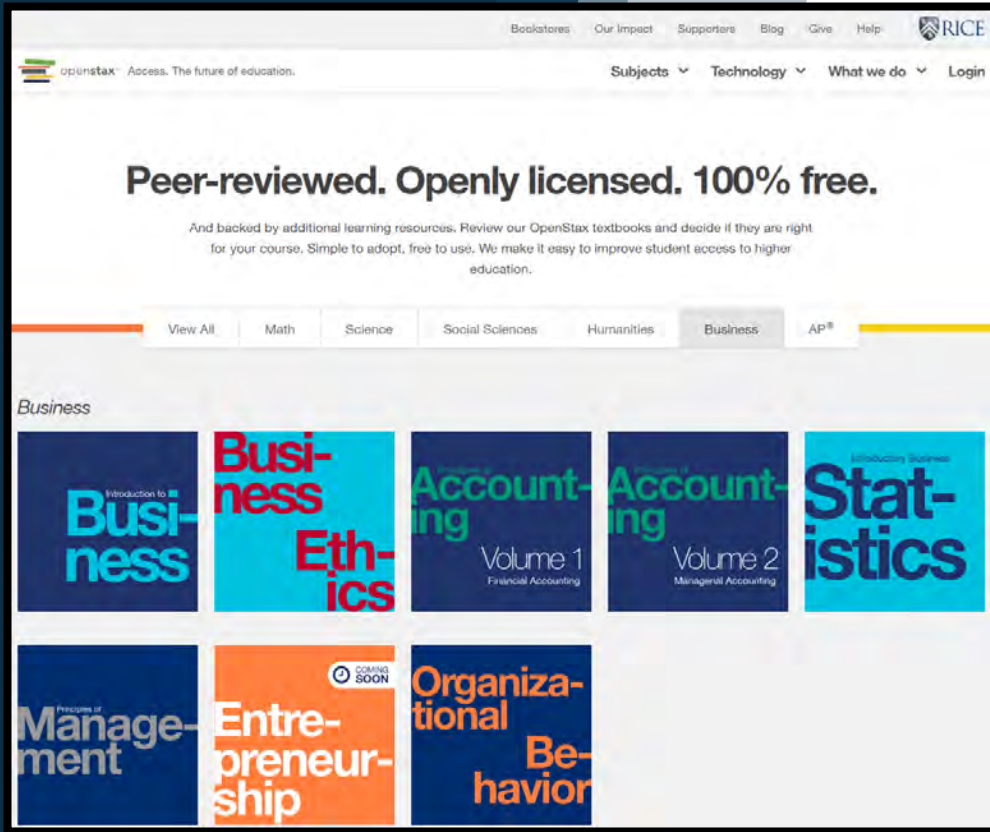
- Students achieve the same or better learning outcomes when using OER
- A positive experience and would do so again
- OER are of equal or higher quality as commercial textbooks




What about Quality?


Free ~~/~~ low quality?






- Written by professional content developers who are experts in their fields
- OpenStax textbooks undergo a rigorous peer review process before publication
- Updates are made regularly to ensure content accuracy and currency

Reviews (3)
Avg:  4.43 / 5


Lauren Anstey
Oct 31, 2017

Institution: Western University
Title/Position: eLearning & Curriculum Specialist


Comprehensiveness

Content Accuracy

Relevance

Clarity

Consistency

Modularity

Organization

Interface

Grammar


Cultural Relevance


Final Thoughts


Q: The text covers all areas and ideas of the subject appropriately and provides an effective index and/or glossary

The text is quite comprehensive covering impressive ground regarding the various theoretical and practical considerations related to technology mediated teaching and learning in post-secondary contexts. Bates orients the reader to foundational theories and practices in higher education, (e.g. epistemologies of teaching and learning, major theories of learning, the nature of knowledge, conceptual models of instructional design, etc.), referencing the landmark scholars and theorists of the field. The text covers many of main points of debate to be expected in framing a comprehensive and informed conversation in higher education and digital technologies (e.g. the changing nature of teaching, the purpose and role of higher education, the advantages and disadvantages of new trends such as MOOCs and open education). Later chapters transition from theory to models of practice that aid the reader in identifying tangible processes for transforming their teaching for the digital age, such as models for decision-making. Overall, the structural elements - Table of Contents, chapter overviews, and headers - provide a clear and consistent navigational structure to the breath of material covered.

Comprehensiveness Rating: 4 out of 5



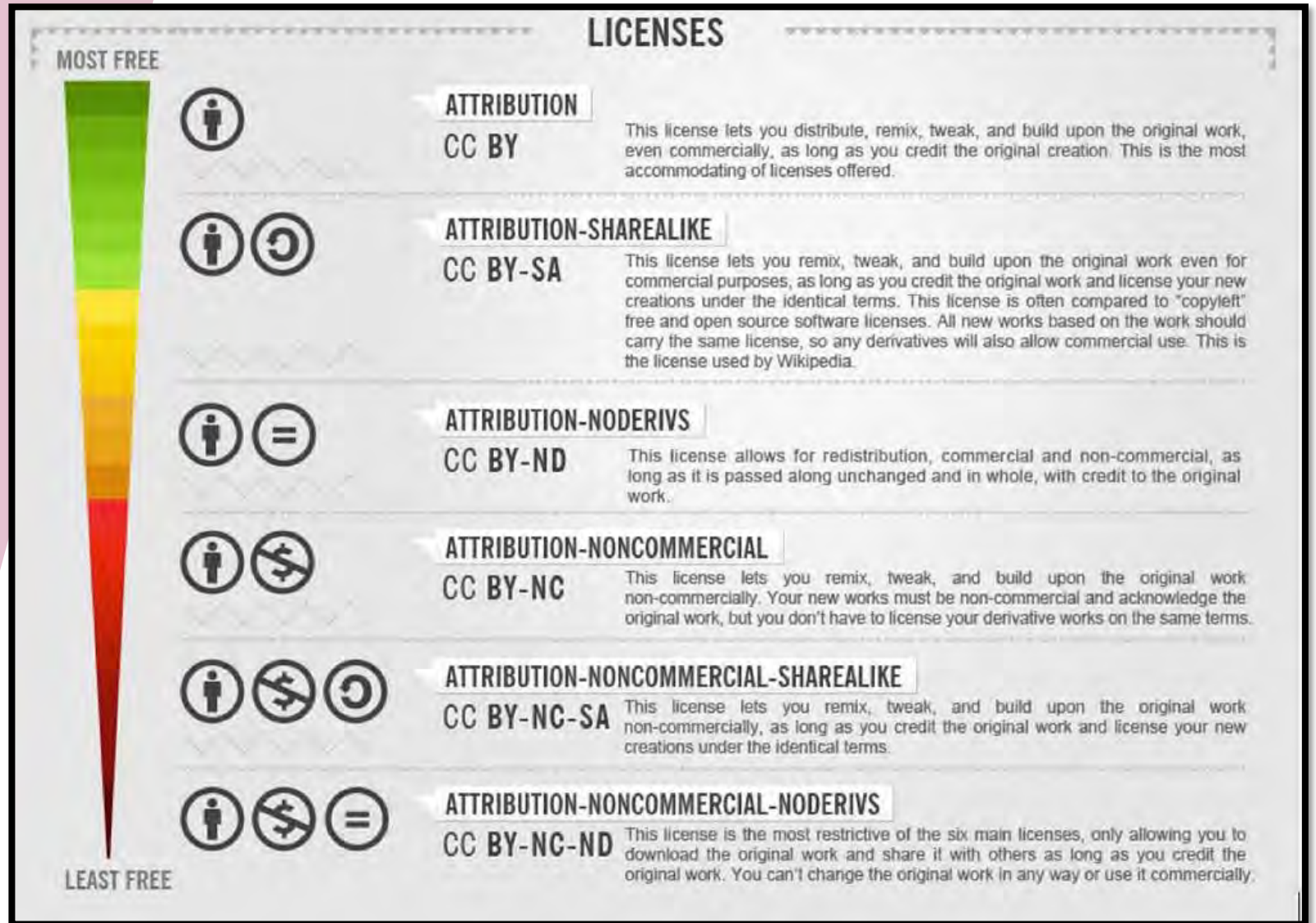

Arlene Corrigan
Sep 10, 2017


Matthew Stranach
Jun 14, 2018

- An open peer review process that happens post-publication
- Reviewers have to be faculty with teaching experience in the subject
- Each review has to be approved for completeness and comprehensiveness
- An honorarium of \$250 for the reviewer

Open Licensing

Creative Commons Licenses



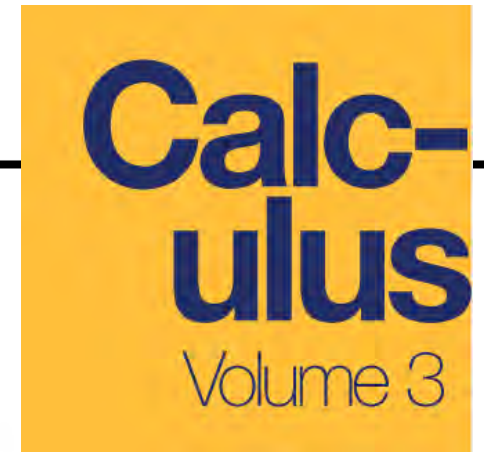
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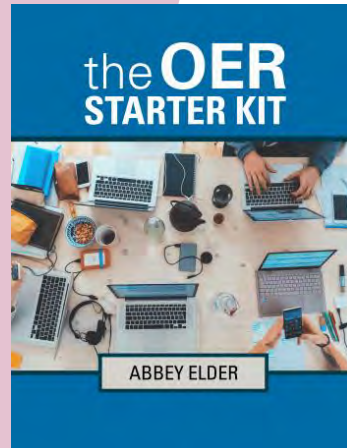
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The OER Project @ Concordia University

Digital Strategy – 8 Projects



Process Review and
Service Redesign



Teaching and Learning
Innovation Lab



Open Educational
Resources



AR, VR, and Simulations



Concordia Hub



Course Recordings



Orientation



Digital Capabilities

The 1st year

Exploration

Experimentation

Outreach

Recommendation

OER Grants

*To adopt, customize, or
create an open textbook*

Education
(create)

Engineering
(create)

Health
(customize)

Journalism
(create)

4 Grants Awarded

OER Grants

2nd round

*Adopt or customize
projects in this round*

Date	Event
Mid-October, 2019	Call for proposals
November 18, 2019	Application deadline
December 6, 2019	Result announcement

THANK YOU

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Chloe Lei, OER Librarian



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<https://www.concordia.ca/library/guides/oer>