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Strategies to Support Open Educational Resources for Student Success: Case Examples from Oregon

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Strategies to Support Open Educational Resources for Student Success: Case Examples from Oregon

Robin Ashford, MSLIS – George Fox University, Portland Center
Educause Connect – Portland, OR March 14, 2017

What Are Open Textbooks?

Published under a [Creative Commons license](#), open textbooks are available to students for free.

Open textbooks are typically distributed online at no cost and can be purchased in a variety of other print and digital formats at a low cost.

Open textbooks are open educational resources (OERs)

- Open educational resources (OER) are free and openly licensed educational materials that can be used for teaching, learning, research, and other purposes.

Why Open?

- Facilitates the free exchange of information
- Allows higher education to take ownership of its content
- Empowers faculty
- Sharing is scalable

Why Open Textbooks?

A couple of reasons:

1) Cost



#TextbookBroke

<https://twitter.com/SenatorDurbin/status/773570064951943168>

<http://npjirgstudents.org/campaigns/make-textbooks-affordable>



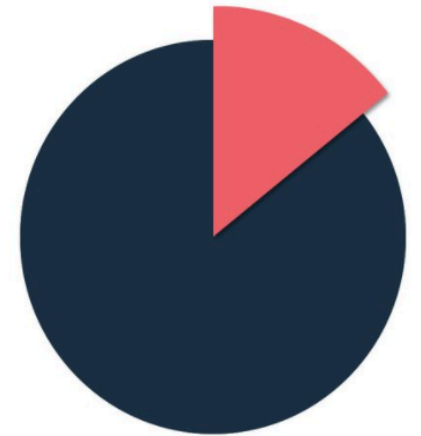
Senator Dick Durbin ✓
@SenatorDurbin

Follow

That is nearly 14% of tuition and fees at public 4-year universities #TextbookBroke

TEXTBOOK BROKE

The recommended budget for college textbooks, **\$1,200 - \$1,300**, is nearly **14%** of the average amount college students pay for tuition and fees at public four-year universities.



durbin.senate.gov

#TextbookBroke

RETWEETS
19

LIKES
20




10:14 AM - 7 Sep 2016

In a recent survey, students reported that in their academic careers, the cost of required textbooks has caused them to:

2012	2016	
63.6%	66.5%	Not purchase the required textbook
49.2%	47.6%	Take fewer courses
45.1%	45.5%	Not register for a specific course
33.9%	37.6%	Earn a poor grade
26.7%	26.1%	Drop a course
17.0%	19.8%	Fail a course

<http://www.uspirg.org/news/usp/student-group-releases-new-report-textbook-prices>

<https://florida.theorange grove.org/og/items/3a65c507-2510-42d7-814c-ffdefd394b6c/1/>


 **Senator Dick Durbin** ✓
@SenatorDurbin

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A recent @HigherEdPIRG survey found 65% of students decided not to buy a textbook due to the cost #TextbookBroke

TEXTBOOK BROKE


A survey released by PIRG found that **65%** of students decided not to buy a textbook because of the cost.



And **94%** of those students worried that not purchasing a textbook due to the cost would hurt their grade.

GIF #TextbookBroke

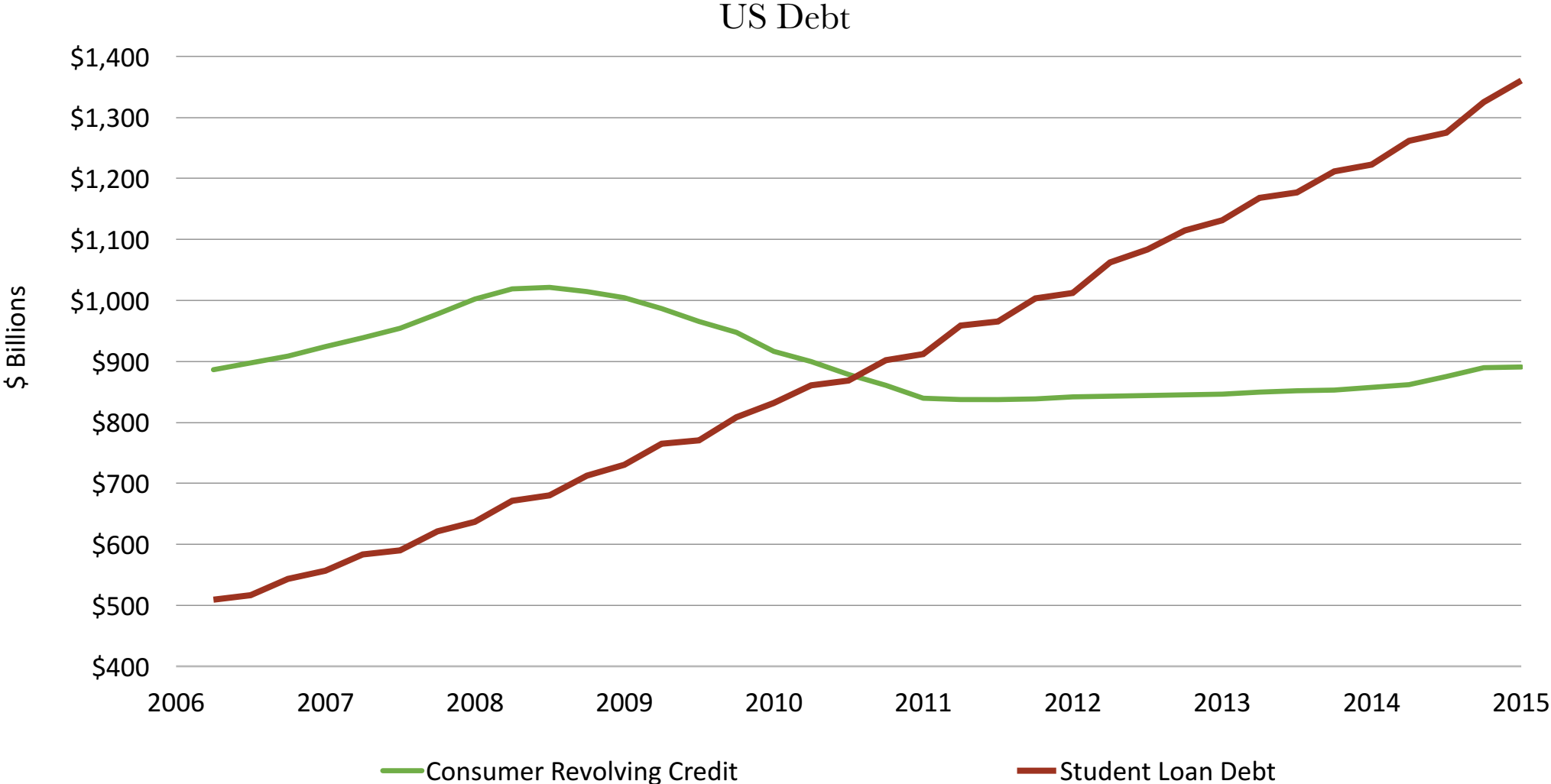
RETWEETS 28 LIKES 18



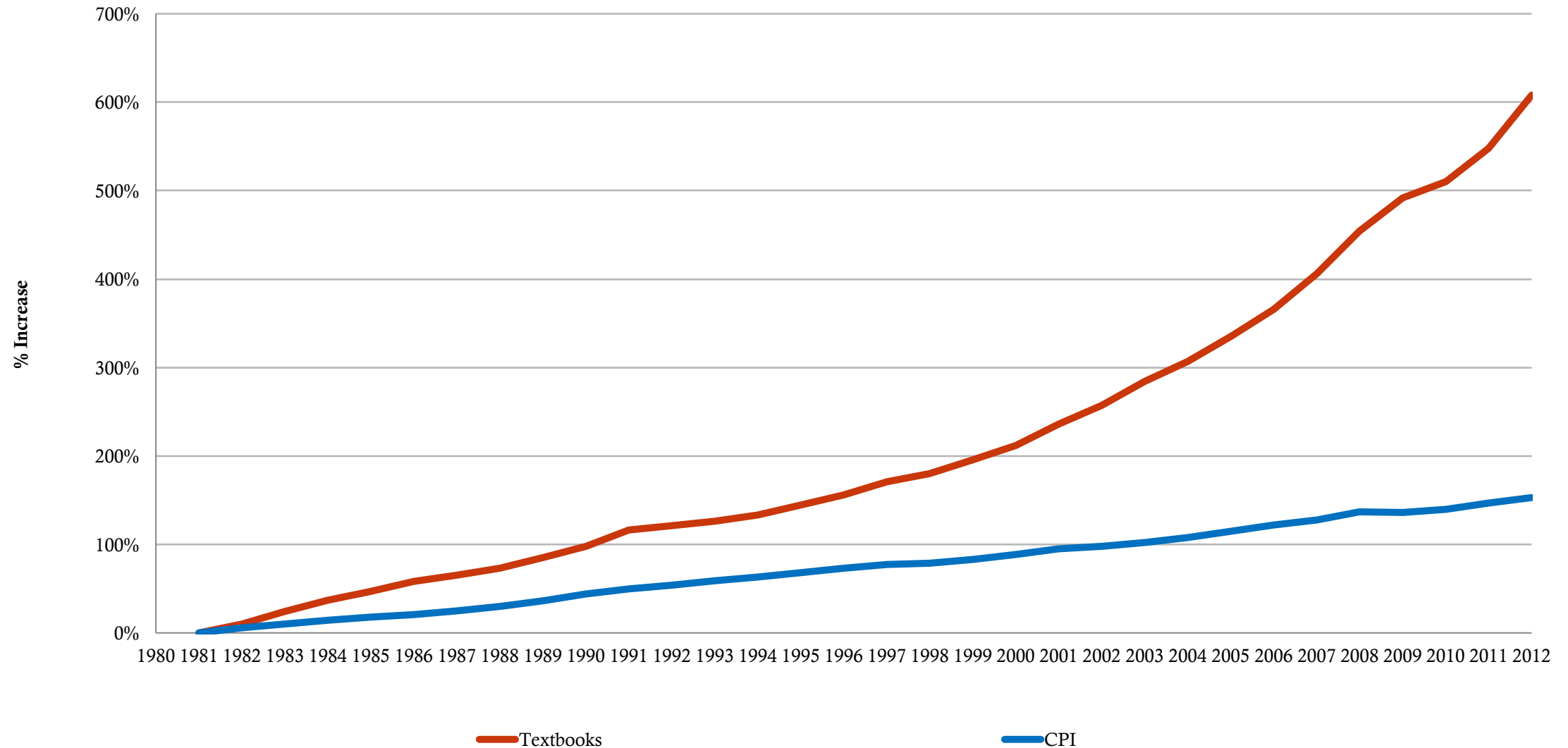
10:32 AM - 7 Sep 2016

<https://twitter.com/SenatorDurbin/status/773574579008729088>

Student Loan Debt Continues To Rise – Cost of Attendance: Tuition & Fees - Room & Board - **Books & Supplies** - Personal Expenses - Transportation



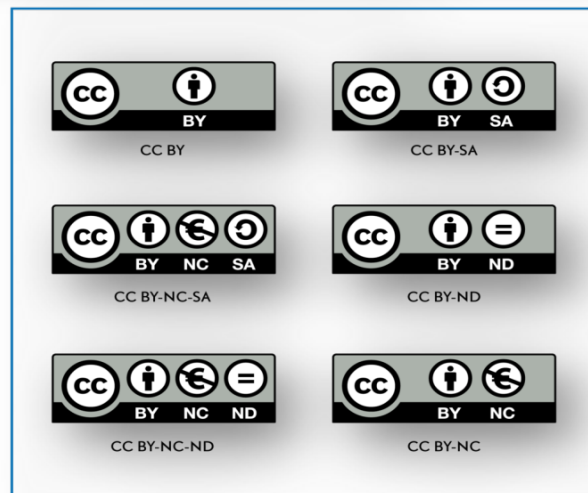
Increase in Textbook Prices – 4X Rate of Inflation



The 5R Permissions of OER

Retain	• Make and own copies
Reuse	• Use in a wide range of ways
Revise	• Adapt, modify, and improve
Remix	• Combine two or more
Redistribute	• Share with others

FIGURE 2: THE SIX VARIATIONS OF THE CC LICENCES



2) In the context of open, what is possible = what is permitted

“My main point is that our conversations about OER should emphasize how all of its benefits - increasing academic freedom, improving affordability and access, revising and remixing - flow from permissions. Permissions are what differentiate OER from other materials and are the source of their benefits.” - David Wiley

Underselling Open: The Problem with Cost Framing:

<https://opencontent.org/blog/archives/4774>

On the Relationship Between Free and Permissions in “Open”

:<https://opencontent.org/blog/archives/4783>

How Effective Are Open Textbooks?



[Educational Technology Research and Development](#)

August 2016, Volume 64, [Issue 4](#), pp 573–590

Open educational resources and college textbook choices: a review of research on efficacy and perceptions

Authors

[Authors and affiliations](#)

John Hilton III 

<http://link.springer.com/article/10.1007/s11423-016-9434-9>

13 Peer Reviewed Studies of Efficacy



119,720 Students





95% Same or Better Outcomes





START

Getting started with our
Open Textbook Initiative



First step: Get money!

An Open Textbook Initiative via
George Fox Innovation Fund: \$16K
[Proposal submitted by Hybrid Learning
Director & Elearning Librarian]

Timeline:

- April 2016 Open Textbook Initiative funded
- June 2016 George Fox University joined the Open Textbook Network
- August 2016 Faculty conference open textbooks awareness presentation
- September 29, 2016 Open Textbook workshops held at George Fox University
- Dec 2016 Open Textbook Library reviews submitted
- Feb/March 2017 Open Textbook Library reviews (9) published -Open Textbook adoptions for Fall 2016 & Spring 2017 (13) (10 replace prior required texts)

The Open Textbook Network promotes access, affordability, and student success through the use of open textbooks.

<http://research.cehd.umn.edu/otn/>

Over 350 active network campuses

As of 2016:

\$3.1 million in textbook savings reported by 9 early members



Open Textbook Library



- 351 textbooks
- 52% of textbooks have been reviewed by faculty at OTN institutions (854 reviews)
- 1M+ (!) visits from every country in the world
- Books produced at Rice University, SUNY, University of Texas at Austin, NOBA, University of Minnesota, Portland State, Grand Valley State...

Faculty
workshop/trainer
presentations by
faculty presenter
Rajiv Jhangiani, PhD,
and trainer
presenter, Meg
Brown-Sica, MS



Workshop was recorded for Faculty who were unable to attend in person due to teaching or travel conflicts.

Open Textbook Library



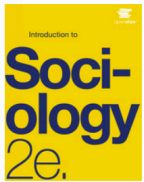
sociology

Go

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Introduction to Sociology 2e

[\(19 reviews\)](#)



Multiple Authors, OpenStax

Pub Date: 2015

ISBN 13: 978-1-9381684-1-3

Publisher: [OpenStax](#)

Table of Contents

- An Introduction to Sociology
- Sociological Research
- Culture
- Society and Social Interaction
- Socialization
- Groups and Organization
- Deviance, Crime, and Social Control
- Media and Technology
- Social Stratification in the United States
- Global Inequality
- Race and Ethnicity

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Open Textbook Library



chemistry

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Chemistry

[\(9 reviews\)](#)



Multiple Authors, OpenStax

Pub Date: 2015

ISBN 13: 978-1-9381683-9-0

Publisher: [OpenStax](#)

Table of Contents

- Essential Ideas
- Atoms, Molecules, and Ions
- Stoichiometry of Substances and Mixtures
- Stoichiometry of Chemical Reactions
- Thermochemistry
- Electronic Structure and Periodic Properties of Elements
- Chemical Bonding and Molecular Geometry
- Advanced Theories of Covalent Bonding
- Gases
- Liquids and Solids
- Solutions and Colloids

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Online

Print Color

Open Textbook Library - George Fox
faculty reviews, adoptions, and more!


Open Textbook Initiative–Incentivizing Innovation



George Fox Faculty Open Textbook Workshop Results

- Nine of 12 eligible George Fox faculty members submitted reviews and received a \$200 stipend
- Five faculty who reviewed and adopted Open Textbook Library titles receive an additional \$500 course redesign stipend
- One faculty member committed to author an open textbook, \$3000 stipend (additional \$1500 allocated for copy editing)

“Our hope in GFU's Department of Professional Studies is to move all GE courses to open textbooks in the next year or two, and then begin to move all major courses to open”


- Professor Jennie Harrop,
Chair, Department of
Professional Studies

Open Textbook Library 



Search the Library [Go](#)

[Browse subjects](#) [Our Textbooks](#) [About us](#)


Introduction to Psychology
[\(9 reviews\)](#)
★★★★★

Pub Date: 2015
ISBN 13:
Publisher: [University of Minnesota Libraries Publishing](#)

[Read This Book](#)

Multiple formats
(PDF, Kindle,
e-pub, .mobi)

George Fox University Student Savings: 10 Courses

-Chemistry–CHEM 211 General Chemistry (**184 students**)

Savings Fall 2016 = \$47,840

-Chemistry–CHEM 110 Chem & Environmnt (**40 students**)

Savings Spring 2017 = \$8,011

-Sociology–SOCL 150 Princ of Sociology (**57 students**)

Savings Fall 2016 & Spring 2017 = \$5,016

-Psychology–PSYC 240 Statistical Proc (**105 students**)

Savings Fall 2016 & Spring 2017 = \$25,195

-Psychology–PSYC 391 Research Methods (**16 students**)

Savings Spring 2017 = \$2,264

Student Savings–Cont.

-Management–MGMT 260 Principles of Management (**35 students**)

Savings Spring 2017 = **\$10,675**

-Psychology–PSYC 150 (ADP) (**54 students**)

Savings Fall 2016 & Spring 2017 = **\$7,088**

-Adult Writing–LACC 101 (ADP) (**31 students**)

Savings Fall 2016 & Spring 2017 = **\$4,250**

-Adult Writing II–LACC 102 (ADP) (**78 students**)

Savings Fall 2016 & Spring 2017 = **\$8,330**

-Soc/Cult Diversity–LACC 285 (ADP) (**11 students**)

Savings Fall 2106 = **\$186**



TOTALS:

Faculty in 10 courses adopt open textbooks

Students (611) saving during pilot 2016/17 academic year

Grand Total Student Savings...



**George Fox University Student Savings
Fall 2016 & Spring 2017 Semester**

\$118,855!



A look to the future...

Second proposal at George Fox U.

Fall 2017/Spring 2018 academic year

-Reviews, adoptions, adaptations, authored titles-

Open Textbook/OER Initiatives in Oregon



openoregon.org

WeBWork-MathBook XML Bridge Project Complete

Enabling Successful, Accessible OER in Mathematics with a WeBWork-MathBook XML Bridge, an Open Oregon grant project, is complete!

Category: Grants Tags: math, portland, university of puget sound, university of rochester, western carolina university

Archived webinar: Enabling Successful, Accessible OER in Mathematics with a WeBWork-MathBook XML Bridge

Join Alex Jordan and Rob Beezer as they discuss their work on developing interactive online math

Search

News

WeBWork-MathBook XML Bridge Project Complete
Enabling Successful, Accessible OER in M [...]

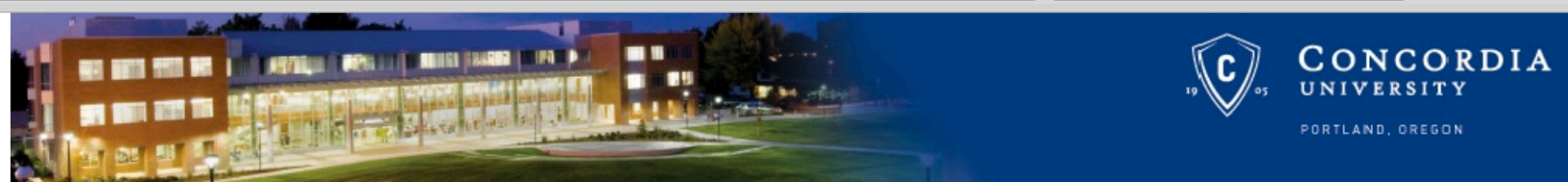
Archived webinar: Enabling Successful, Accessible OER in Mathematics with a WeBWork-MathBook XML Bridge
Join Alex Jordan and Rob Beezer as they [...]

Call for Proposals: Open Educational Resources Grants
Open Oregon seeks grant proposals that i [...]

Archived webinar: Adopting NOBA for Psychology
Chemeketa is using NOBA's open psycholog [...]

Open Oregon Grant Awards by Category

	"Adopt" at \$500 per person	"Revise / Remix" at \$1500 per person	"Author" at \$5000 per person	"Other" at up to \$30,000	Total
# awards	54	21	8	3	86
\$ allocated	\$46,500	\$72,000	\$91,000	\$26,000	\$235,500
Reported pilot year savings to date	\$179,678.96	\$231,209.34	\$59,957.40	\$3,935.00	\$474,780.70
Projected savings in pilot year per \$1 spent	\$8.15	\$13.30	\$1.21	\$0.82	\$5.79



[Library](#) / [Research Guides](#) / [Concordia University Libraries](#) / [Open Educational Resources](#) / [Concordia OER pilot 2016-2017](#)

Open Educational Resources

[Home](#)[What are OER?](#)[Why OER?](#)[Finding OERs](#)[Discipline Specific OER](#)[Creative Commons Licensing](#)[Library Resources as Course Materials](#)[Research](#)[Stories from faculty who use OER](#)[Concordia OER pilot 2016-2017](#)

OER Initiative and Pilot Project

Concordia University began an OER initiative in Spring 2016 by joining the [Open Textbook Network](#) (OTN), an alliance of over 200 campuses that promote affordable course resources and student success. Our OER pilot project began in Fall 2016. In phase one of the project, 17 faculty and staff attended an OER workshop led by John Hilton and Merinda McLure of the OTN. Twelve of those who attended are receiving \$200 stipends to peer review an open textbook.

Seven faculty are participating in phase two, where six courses will be transformed from using a commercial textbook to utilizing OER, reducing the financial burden of students taking the course and customizing course content to meet course outcomes. Stipends for participating are \$1,000 (two faculty are collaborating and sharing one stipend). Our phase two participants are Jeanette Eggert (physics), Cathy Lambeth (education), Jonathan Ortiz (sociology), Vanessa Wasilowski (science).

The pilot project is being funded by the Office of University Innovation, the Office of the Provost. For more information, please contact Kim Reardon at kim.reardon@portland.edu



Concordia Library

@CUPortlandLib

Following

Bye-bye expensive textbooks! OER work is in progress for 6 courses & will save students about \$40k next year. bit.ly/2IVrZmQ #OER

LIKES

4



4:29 PM - 1 Mar 2017

<https://twitter.com/CUPortlandLib/status/837097420739629057>

<http://libguides.cu-portland.edu/OER/pilot>

How PSU Library Got Started

The Provost's Challenge 2013. Allocated \$3 million to fund and support twenty-four innovative faculty-staff activities to accelerate online learning and the use of innovative technology in educational delivery and to improve student success and graduation.

Call for authors sent spring 2014.

- \$2,500 per project
- project manager
- copyright/fair use/Creative Commons assistance
- platform to publish open access textbooks.

December 2014 published **5 open textbooks**

Building on the Success

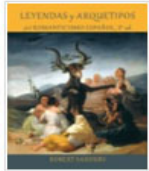
Completed 3 calls for proposals for open textbook (2015, 2016 and 2017).

Published 5 new open textbooks in 2016 (bringing the number of open textbooks published by the library to 10).

Published two 2nd editions.

As of March 2017, **12 additional open textbooks in production.**

Nearly 1,000 students have used PDXOpen textbooks in their classes, and have saved over \$100,000 on the cost of their books. (reported winter 2017).



Leyendas y arquetipos del Romanticismo español, Segunda edición

Robert Sanders

Leyendas y arquetipos del Romanticismo español is an introduction to nineteenth-century Spanish literature with a thematic focus on legends and archetypes. It presents Romanticism in the context of nineteenth-century literary and social movements. It is designed as a first anthology for intermediate Spanish students at American universities. Although brief, it includes poetry, drama in verse and short story. The works have been selected for their literary interest and the social importance of their themes. They are all by canonical authors.

New for the Second Edition: over 4000 vocabulary, historical and cultural annotations to facilitate reading and comprehension.

The Prologue and chapter introductions use circumlocution to facilitate comprehension, and include concrete examples of the concepts presented. The author biographies are brief and should not be used as study materials, but rather as starting points for students' own exploration. Many students prefer following their own interests when researching author biographies, and the internet makes accessible a plethora of bibliographic resources, such as the *Biblioteca Virtual Miguel de Cervantes*, the *Centro Virtual Cervantes* of the Cervantes Institute, or the *Biblioteca Digital Hispánica* of the Spanish National Library. Student participation in the selection of topics and sources emphasizes the investigative process and leads to richer class discussions.



PDX Journeys: Studying and Living in the US, Low-Intermediate Novel and Textbook for University ESL Students

Amber Bliss Calderón

Each unit begins with a chapter of fiction about a teacher and students in one ESL class. Reading comprehension and reading skills exercises follow. Prefix and suffix vocabulary-focus exercises are included. Academic Word List vocabulary exercises help students build a strong foundation in both receptive and productive knowledge. The following chapters in each unit expand on unit themes through non-fiction articles focusing on academic preparation, international experiences, and cultural adjustment. Vocabulary is repeated and comprehension and reading skills are further practiced.



Introduction to Mathematical Analysis I - Second Edition

Beatriz Lafferriere, Gerardo Lafferriere, and Nguyen Mau Nam

Our goal in this set of lecture notes is to provide students with a strong foundation in mathematical analysis. Such a foundation is crucial for future study of deeper topics of analysis. Students should be familiar with most of the concepts presented here after completing the calculus sequence. However, these concepts will be reinforced through rigorous proofs.

10 Open Textbooks

- 1 in Mathematics (2nd Edition)
- 1 in Spanish (2nd Edition)
- 1 in Arabic
- 1 in Korean
- 2 in Japanese
- 1 in Special Education
- 1 in Gender and Sexuality Studies
- 1 in Intensive English Language
- 1 in GIS – Urban Planning

<http://pdxscholar.library.pdx.edu/pdxopen/>

Extended Campus

Open Oregon State

Guide faculty through the creation of open learning opportunities, enabling them to share their expertise with the world

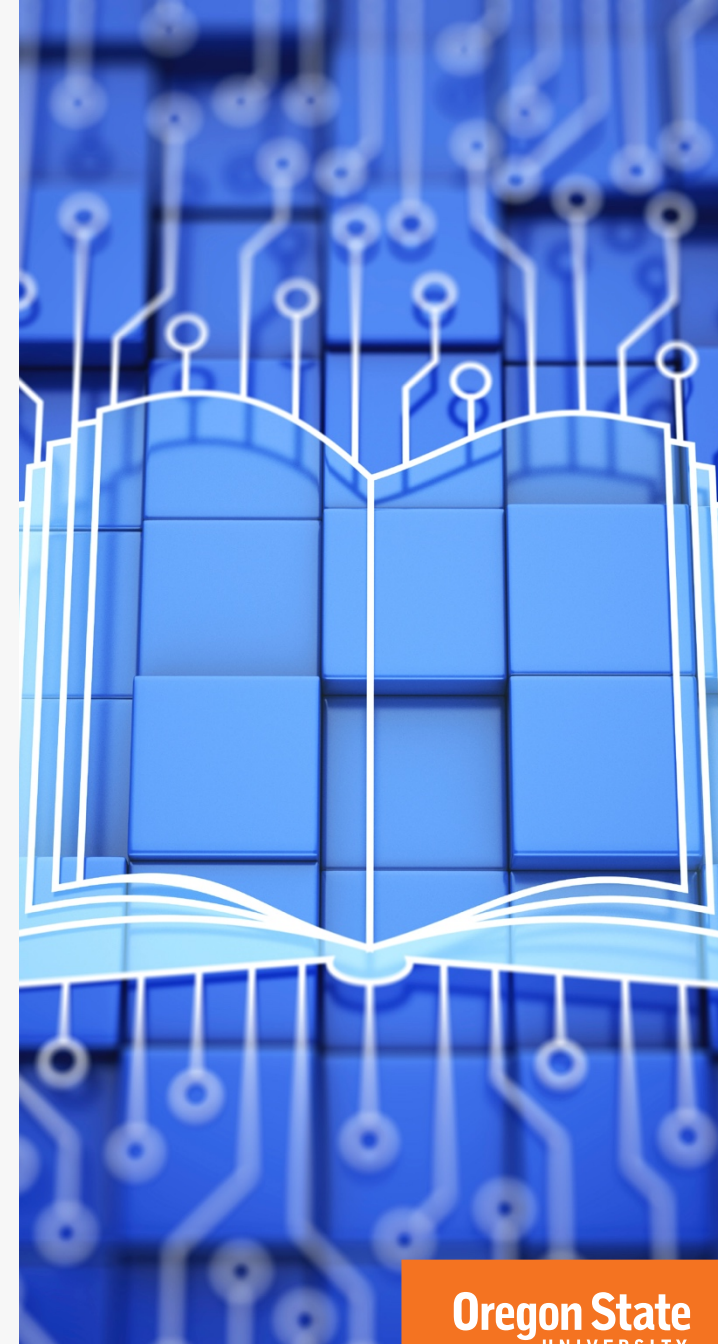
Director: Dianna Fisher

Open textbook initiative and partnerships

- Community colleges
- Other 4-year institutions
- OSU Libraries & Press

Open courses

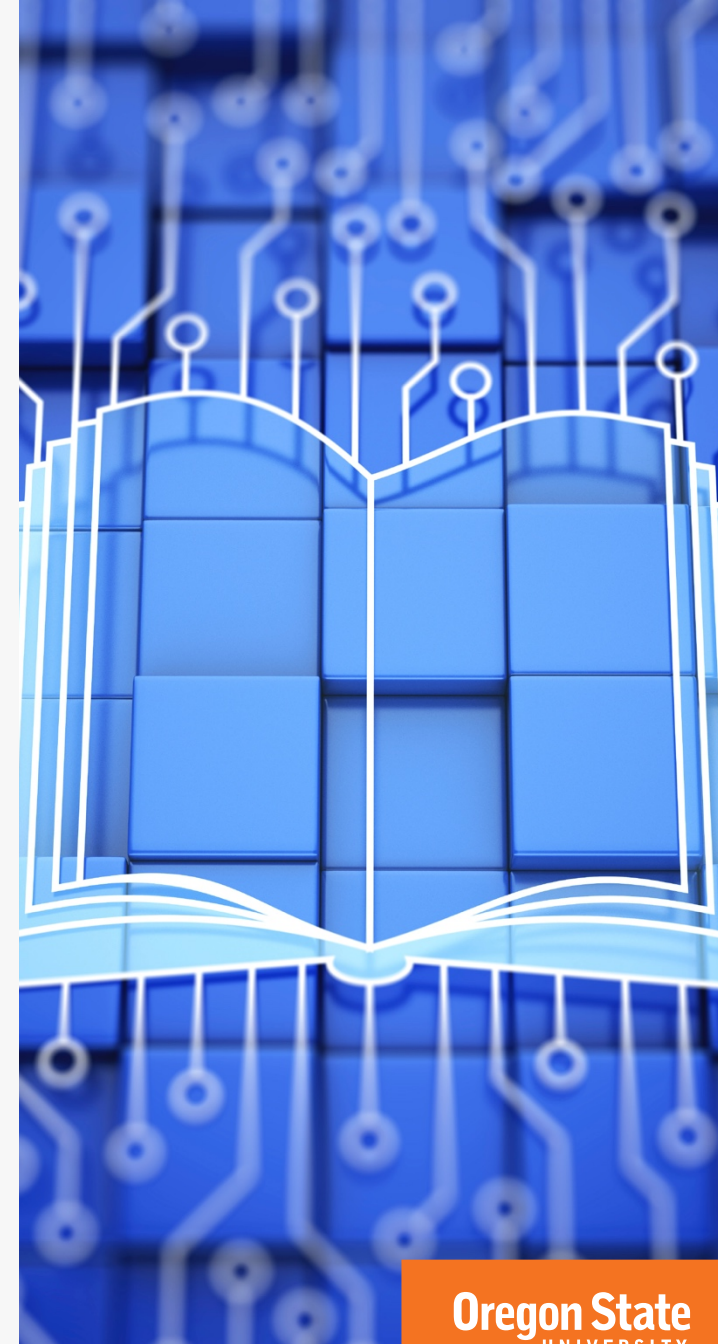
- Over 25 current open course offerings (not MOOCs)
- MOOCs
- Vet Med Diagnostic Module



Open Oregon State

Current open textbook initiatives (partial list)

Cherian, Gita	Animal Feed & Nutrition
Lambrinos, John	Ecological mgmt of the Human dominated world
Ahern Kevin, Rajagopol Indira	Biochemistry
O'Neil, Shawn	A primer for computational biology
Smyth, William	Fluid Mechanics
Schmittner, Andreas et al	Intro to Climate Change
Millison, Andrew	Intro to Permaculture
Hendricks, David	Applied Bioinformatics
Rosulek, Mike	Joy of Cryptography
Selker, John	Vadose Zone
Morris, John	Strategic Management
Bruslind, Linda	Intro to Microbiology
McComb, Brenda	Monitoring Animal Populations and their Habitats
Naithani, Sushma	The history and science of cultivated plants
Van Zee, Emily	Physics for Teachers
Olson, Rebecca	Romeo & Juliet
Biga, Lindsay	Human Anatomy & Physiology



Thank you.

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@rashford