

In-Depth Peer-Reviewed Studies on OER Quality and Efficacy

National Peer-Reviewed Studies on OER Quality

In terms of student and teacher perceptions of OER, 2,717 students and 2,484 faculty members were surveyed across the nine peer-reviewed studies. Approximately 50% said that the OER resources were as good as traditional resources, 35% said the OER were superior and 15% said they were inferior.

[Allen, I., Seaman, J. \(2014\)](#). *Opening the Curriculum: Open Educational Resources in U.S. Higher Education*, 2014.

[Bliss, T., Robinson, T. J., Hilton, J., & Wiley, D. \(2013\)](#). An OER COUP: College teacher and student perceptions of Open Educational Resources. *Journal of Interactive Media in Education*, 1–25.

[Bliss, T., Hilton, J., Wiley, D., Thanos, K. \(2013\)](#). The cost and quality of open textbooks: Perceptions of community college faculty and students. *First Monday*, 18:1.

[Feldstein, A., Martin, M., Hudson, A., Warren, K., Hilton, J., & Wiley, D. \(2012\)](#). Open textbooks and increased student access and outcomes. *European Journal of Open, Distance and E-Learning*. Retrieved from <http://www.eurodl.org/index.php?p=archives&year=2012&halfyear=2&article=533>.

[Gil, P., Candelas, F., Jara, C., Garcia, G., Torres, F \(2013\)](#). Web-based OERs in Computer Networks. *International Journal of Engineering Education*, 29(6), 1537-1550. (OA [preprint](#)). resources by one community college math department. *The International Review of Research in Open and Distance Learning*, 14(4), 37–50.

[Lindshield, B., & Adhikari, K. \(2013\)](#). Online and campus college students like using an open educational resource instead of a traditional textbook. *Journal of Online Learning & Teaching*, 9(1), 1–7.

[Petrides, L., Jimes, C., Middleton-Detzner, C., Walling, J., & Weiss, S. \(2011\)](#). Open textbook adoption and use: Implications for teachers and learners. *Open learning*, 26(1), 39-49,

[Pitt, R., Ebrahimi, N., McAndrew, P., & Coughlan, T. \(2013\)](#). Assessing OER impact across organisations and learners: experiences from the Bridge to Success project. *Journal of Interactive Media in Education*, 2013(3).

Jhangiani, R. S., Pitt, R., Hendricks, C., Key, J., & Lalonde, C. (2016). Exploring faculty use of open educational resources at British Columbia post-secondary institutions. BCcampus Research Report. Victoria, BC: BCcampus.

https://bccampus.ca/files/2016/01/BCFacultyUseOfOER_final.pdf,

Pitt, R. (2015). Mainstreaming Open Textbooks: Educator Perspectives on the Impact of OpenStax College open textbooks. *The International Review of Research in Open And Distributed Learning*, 16(4). <http://www.irrodl.org/index.php/irrodl/article/view/2381/3497> and [CA OER Whitepaper](#)

National Peer-Reviewed Studies on OER Efficacy

There are many studies that confirm the effectiveness of OER. Across 13 academic studies that attempted to measure results pertaining to student learning (higher ed: 15784 treatment, 99,692 control, k12: 1805 treatment 2439 control) none showed results in which students who utilized OER performed worse than their peers who used traditional textbooks.

[Allen, G., Guzman-Alvarez, A., Molinaro, M., Larsen, D. \(2015\)](#). Assessing the Impact and Efficacy of the Open-Access ChemWiki Textbook Project. Educause Learning Initiative Brief, January 2015. See also [this newsletter](#).

[Bowen, W. G., Chingos, M. M., Lack, K. A., & Nygren, T. I. \(2012\)](#). *Interactive Learning Online at Public Universities: Evidence from Randomized Trials*. Ithaka S+R.

- [Bowen, W. G., Chingos, M. M., Lack, K. A., & Nygren, T. I. \(2014\)](#). Interactive Learning Online at Public Universities: Evidence from a Six-Campus Randomized Trial. *Journal of Policy Analysis and Management*, 33(1), 94-111.
- [Feldstein, A., Martin, M., Hudson, A., Warren, K., Hilton, J., & Wiley, D. \(2012\)](#). Open textbooks and increased student access and outcomes. *European Journal of Open, Distance and E-Learning*. Retrieved from <http://www.eurodl.org/index.php?p=archives&year=2012&halfyear=2&article=533>.
- [Gil, P., Candelas, F., Jara, C., Garcia, G., Torres, F \(2013\)](#). Web-based OERs in Computer Networks. *International Journal of Engineering Education*, 29(6), 1537-1550. (OA [preprint](#))
- [Hilton, J., Gaudet, D., Clark, P., Robinson, J., & Wiley, D. \(2013\)](#). The adoption of open educational resources by one community college math department. *The International Review of Research in Open and Distance Learning*, 14(4), 37–50.
- [Hilton, J., & Laman, C. \(2012\)](#). One college's use of an open psychology textbook. *Open Learning: The Journal of Open and Distance Learning*, 27(3), 201–217. Retrieved from <http://www.tandfonline.com/doi/abs/10.1080/02680513.2012.716657>. ([Open Repository Preprint](#)).
- [Lovett, M., Meyer, O., & Thille, C. \(2008\)](#). The open learning initiative: Measuring the effectiveness of the OLI statistics course in accelerating student learning. *Journal of Interactive Media in Education*, 2008 (1).
- [Pawlyshyn, Braddlee, Casper and Miller \(2013\)](#). Adopting OER: A Case Study of Cross-Institutional Collaboration and Innovation. *Educause Review*. Robinson, T.J. (2015). *Open Textbooks: The Effects of Open Educational Resource Adoption on Measures of Post-secondary Student Success* (Doctoral dissertation).
- [Robinson T. J., Fischer, L., Wiley, D. A., & Hilton, J. \(2014\)](#). The impact of open textbooks on secondary science learning outcomes. *Educational Researcher*, 43(7): 341-351.
- [Wiley, D., Hilton, J. Ellington, S., and Hall, T. \(2012\)](#). "A preliminary examination of the cost savings and learning impacts of using open textbooks in middle and high school science classes." *International Review of Research in Open and Distance Learning*. 13 (3), pp. 261-276. This also includes Fischer et al (2015), Wiley et al. (EPAA) (2016), and Hilton et al. (IRRODL) (in press)