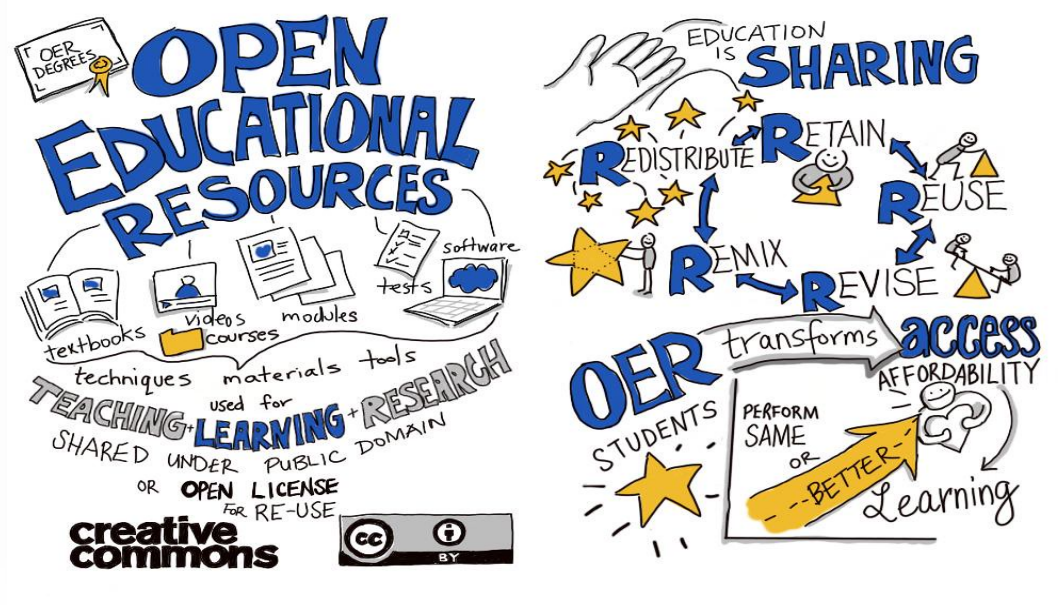# Free For All
OER Selection Strategies and Structure

Dr. Charlotte Russell Cox

North Carolina Central University

Instructional Designer

Session Objectives

★ Describe the 5R's of OERs (revise, retain, reuse, remix, and redistribute).

★ Identify research based criteria and framework for selecting OERs.

★ Develop best practice strategies for the implementation of OERs in relationship to General Standard 4.

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What is an Open Educational Resource (OER)?

OERs are resources that are free materials that educators can use which are not copyright restricted. Open educational resources have open licenses for users to revise, retain, reuse, remix, and redistribute the materials.

Irvine, J., Kimmons, R. & Rogers, J. (2021).
Recognizing and Overcoming Obstacles:What It Will Take to Realize the Potential of OER. EDUCAUSE.

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Quality Matters General Standard 4

- General Standard 4 – Instructional Materials: Instructional materials enable learners to achieve stated learning objectives or competencies.

- Overview Statement: The focus of this Standard is on supporting the course objectives and competencies, rather than on qualitative judgments about the instructional materials.

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Quality Matters Specific Review Standard 4.1

"Instructional materials may include but are not limited to textbooks, Open Educational Resources, publisher- or instructor-created materials, slide presentations and interactive content (such as simulations), expert lectures, videos, images, diagrams, and websites" in modules or units."

5 R's of OER

- **Revise**-Adapt, modify, and improve.

- **Retain**-Make and own a copy of resource.

- **Reuse**-Use in a wide range of ways.

- **Remix-**Combine two or more.

- **Redistribute**-Share with other individuals
Wiley, D. (2017). OER-enabled pedagogy

5 R's of OER

- **Revise**-Translate it into another language.

- **Retain**-Download, duplicate, store, and manage.

- **Reuse**-In a class, in a study group, on a website, in a video.

- **Remix**-Incorporate the work into a mashup.

- **Redistribute**-Give a copy of the work to a friend.
West (2018)

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Check in time...in the chat

Which one of the 5 R's of OER (Revise, Retain, Reuse, Remix, or Redistribute) is most appealing for the work you do with students or faculty?

OER's in Education

"Open educational resources include full courses, course materials, modules, textbooks, streaming videos, tests, software,and any other tools, materials, or techniques used to support access to knowledge" (Hewlett, 2014).

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OER Examples

Full Courses	Syllabi	Textbooks	Book Chapters
Modules	Videos	Simulations	Assessments

Merrill's First Principles of Instruction

Principle 1—Problem-centered

Principle 2—Activation

Principle 3—Demonstration (Show me)

Principle 4—Application (Let me)
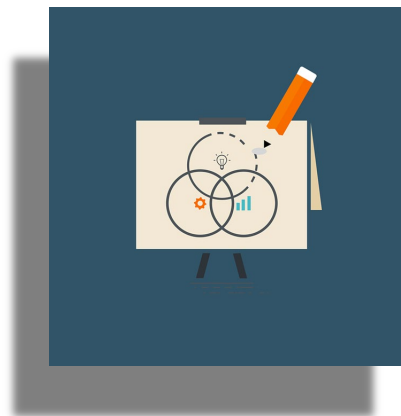
Principle 5—Integration (Knowledge transfer)

Merrill (2002)
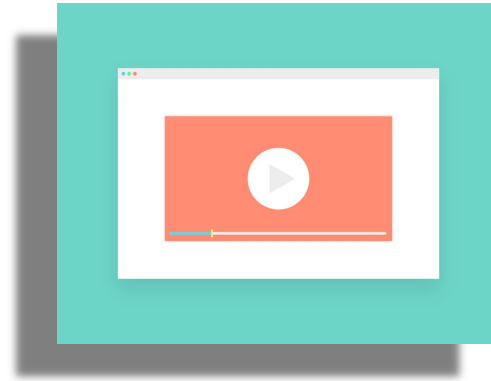
Merlot Evaluation Criteria For OER

· Content is assessed for correctness, significance and concept currency.

· Teaching and learning effectiveness of the material.

· Ease of re-use in other contexts.

MERLOT (2014) Jung et al. (2016)

Textbook Cost

"Senack (2014) noted the cost of textbooks in the USA have increased by 1041% since 1977,including 82% between 2002 and 2013 alone (as cited by Jhangiani et al., 2016, pp. 6)."

Blomgren, C. (2018). OER awareness and use: The affinity between higher education and K-12. *International Review of Research in Open and Distributed Learning*, *19*(2).

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OER Textbook Example
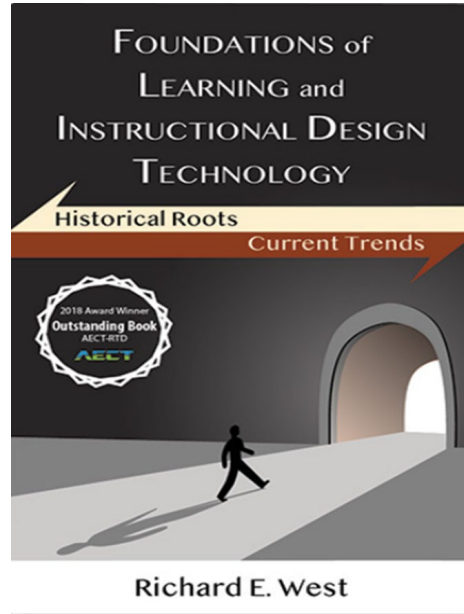
Citation

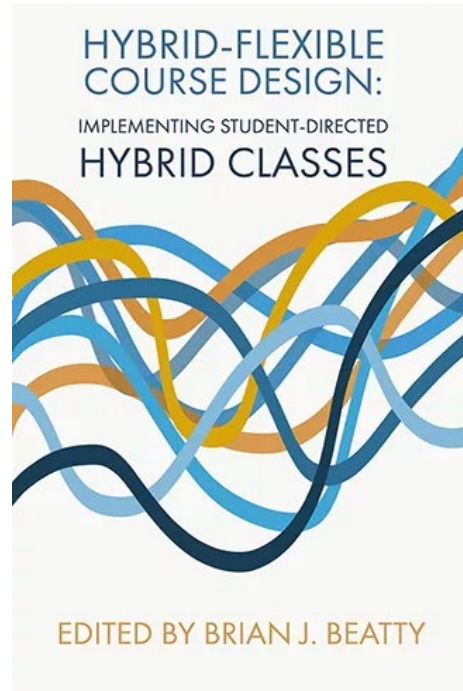West, R. E. (2018). *Foundations of Learning and Instructional Design Technology (1st ed.)*. EdTech Books.

https://edtechbooks.org/lidtfoundations

Licensing

OER Textbook Example

HYBRID-FLEXIBLE
COURSE DESIGN:

IMPLEMENTING STUDENT-DIRECTED

HYBRID CLASSES

EDITED BY BRIAN J. BEATTY

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Citation

Beatty, B. J. (2019). *Hybrid-Flexible Course Design (1st ed.)*. EdTech Books. https://edtechbooks.org/hyflex

**Licensing**

CC BY: This work is released under a CC BY license, which means that you are free to do with it as you please as long as you properly attribute it.

Student Savings-International Example

Known Open Textbook Adoptions in B.C.

2012 - 2022

📊 Student savings	$30,211,294
📖 Number of B.C. students using open textbooks	254,265
🚩 Number of B.C. institutions currently adopting	43
⭐ Top 5 adopting institutions (number of adoptions)	1. Douglas College, 2. Langara College, 3. Kwantlen Polytechnic University, 4. Thompson Rivers University, 5. University of British Columbia
⭐ Top 5 adopting institutions (student savings)	1. University of British Columbia, 2. Douglas College, 3. Langara College, 4. Simon Fraser University, 5. Thompson Rivers University,
👥 Number of known B.C. faculty adopting	792
🌐 Number of known B.C. adoptions	5,921

https://open.bccampus.ca/advocate-for-open-education/open-textbook-stats/

Check in time...in the chat

What OERs are you considering using or recommending such as textbooks, videos, simulations, assessments, book chapters ?

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Framework for Selecting OER

- Purpose-Seven Criteria

- Ease of Use-Four Criteria

- Content-Five Criteria

- Pedagogy-Nine Criteria

Jung, I., Sasaki, T., & Latchem, C. (2016). A framework for assessing fitness for purpose in open educational resources. *International Journal of Educational Technology in Higher Education*, *13*(1), 1-11.

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Purpose-7 Criteria
(Jung et al., 2016)

-Providing open, accessible and quality content.

-Sharing best practices for learning resources.

-Helping developing countries improve learning.

-Offering non-formal/informal knowledge pathways.

-Providing for geographically, socially or economically excluded and non-traditional, work-based learners, etc.

-Improving online education with greater awareness of open and inclusive educational practices.

-Enables collaboration between institutions, sectors, disciplines and countries.

Ease of Use-4 Criteria (Jung et al., 2016)

-The OER corresponds with open content licenses (e.g., Creative Commons).

-The OER can be reused, revised and remixed.

-The screen design and navigation systems are clear.

-The presentation methods corresponds with the learner's abilities.

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Content-5 Criteria
(Jung et al., 2016)

-Goals and content of the OER are easily understood.

-The content is accurate and up to date.

-Content covers concepts and enables understanding.

-The content progresses from simple to more complex.

-The content is appropriate to students' knowledge, experience, and demographics.
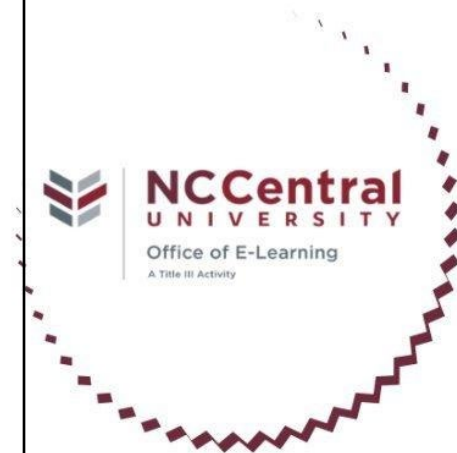
Pedagogy-9 Criteria
(Jung et al., 2016)

-The OER gains and keeps students' attention.

-OER helps learners recall, relate or apply knowledge.

-OER provides structure for knowledge/skill transfer.

-The OER provides opportunities for task analysis, hands-on, real-world problems.

-The OER's text, images, audio and video elements and hyperlinks provide diversity in learning.

-The design focuses on key aspects of the learning.

-OER contains feedback, support and assessment.

-The OER enables the transfer of the new knowledge and skills to different tasks, problems or contexts.

-OER enables students to consolidate learning or construct meaning through reflection and discussion.

Check in time...in the chat

Which one (or two) of these criteria do you find most significant and valuable when selecting OERs ?

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OER Websites

- [Open Textbook Library](#)

- [EdTech Books](#)

- [MERLOT](#)

- [BcCampus OpenEd](#)

- [OER Commons-Open Textbooks](#)

- [The Mason OER Metafinder (MOM)](#)

Check in time...

Quick tour of two OER websites

Best Practices for OER Implementation

- Use Jung et al. OER criteria (ease of use, content, and pedagogy) to select appropriate required and supplemental course books and materials.

- While selecting resources, ensure that OER instructional materials align with course and module learning objectives.

- Provide appropriate attribution to OER such as Creative Commons (CC) information like providing credit, providing a link to the license, and/or indicating if changes to the resource were made.

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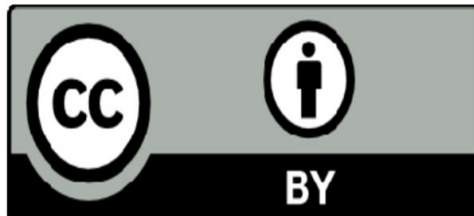
OER Websites

- [Online Learning Initiative](#)
- [Open Course Library](#)
- [MIT Open Courseware Online Textbooks](#)
- [The World Digital Library (WDL)](#)
- [Community College Consortium for OERs](#)
- [OpenStax](#)

Check in time...

Quick tour of two OER websites

References

BcCampus OpenEd. (2022). Known Open Textbook Adoptions in B.C. https://open.bccampus.ca/advocate-for-open-education/open-textbook-stats/

Blomgren, C. (2018). OER awareness and use: The affinity between higher education and K-12. *International Review of Research in Open and Distributed Learning*, *19*(2).

Hewlett. (2014). Open Educational Resources. https://edtechbooks.org/-zh

Irvine, J., Kimmons, R. & Rogers, J. (2021). Recognizing and Overcoming Obstacles: What It Will Take to Realize the Potential of OER. EDUCAUSE.

Jung, I., Sasaki, T., & Latchem, C. (2016). A framework for assessing fitness for purpose in open educational resources. International Journal of Educational Technology in Higher Education, 13(1), 1-11.

MERLOT (2014) MERLOT peer review information. Retrieved from http://info.merlot.org/merlothelp/index.htm (My MERLOT).

Merrill, M. D. (2002). First principles of instruction. Educational technology research and development, 50(3), 43-59.

West, R. E. (2018). Foundations of Learning and Instructional Design Technology (1st ed.). EdTech Books. https://edtechbooks.org/lidtfoundations .

Wiley, D. (2017). OER-enabled pedagogy.

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Questions/Comments and Contact

Charlotte Russell Cox, Ed.D.

https://www.linkedin.com/in/charlotte-russell-cox-edd

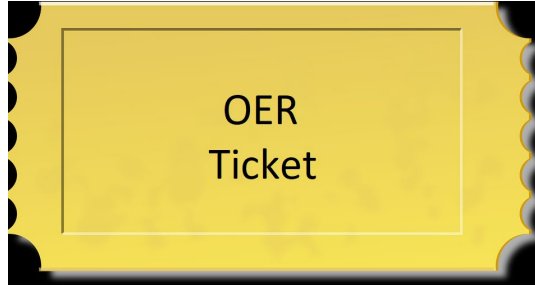Instructional Designer

ccox33@nccu.edu

Ticket out the door

- What OER are you going to explore (or continue to explore) after this session?

- Are you going to use OER's in your courses or recommend OER's for faculty members' required or supplemental materials?

OER
Ticket

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THANK YOU