

OER in the Health Sciences: Increasing Customization and Affordability

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01

Know what “OER” means

02

Know why you might use OER in the courses you teach

03

Get a sense of the possibilities in using OER

What does “OER”
mean?



Open educational resources (OER)

“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.”

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OER = Free + Permissions

Free for students to access

Free of copyright restrictions that limit adaptations and re-use

Permission to access, re-use, modify

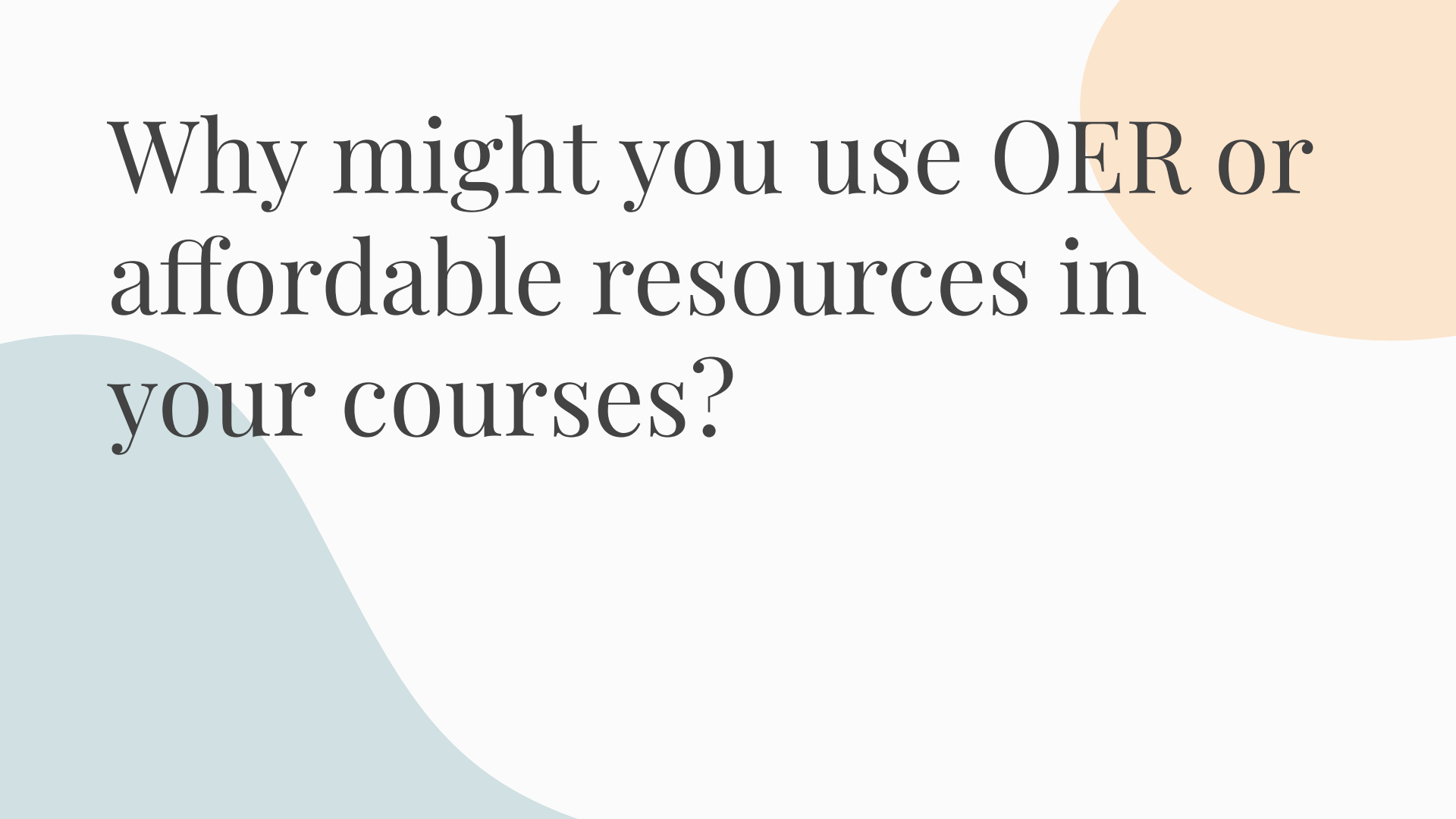
- Open license determines permissions for users



Poll question:

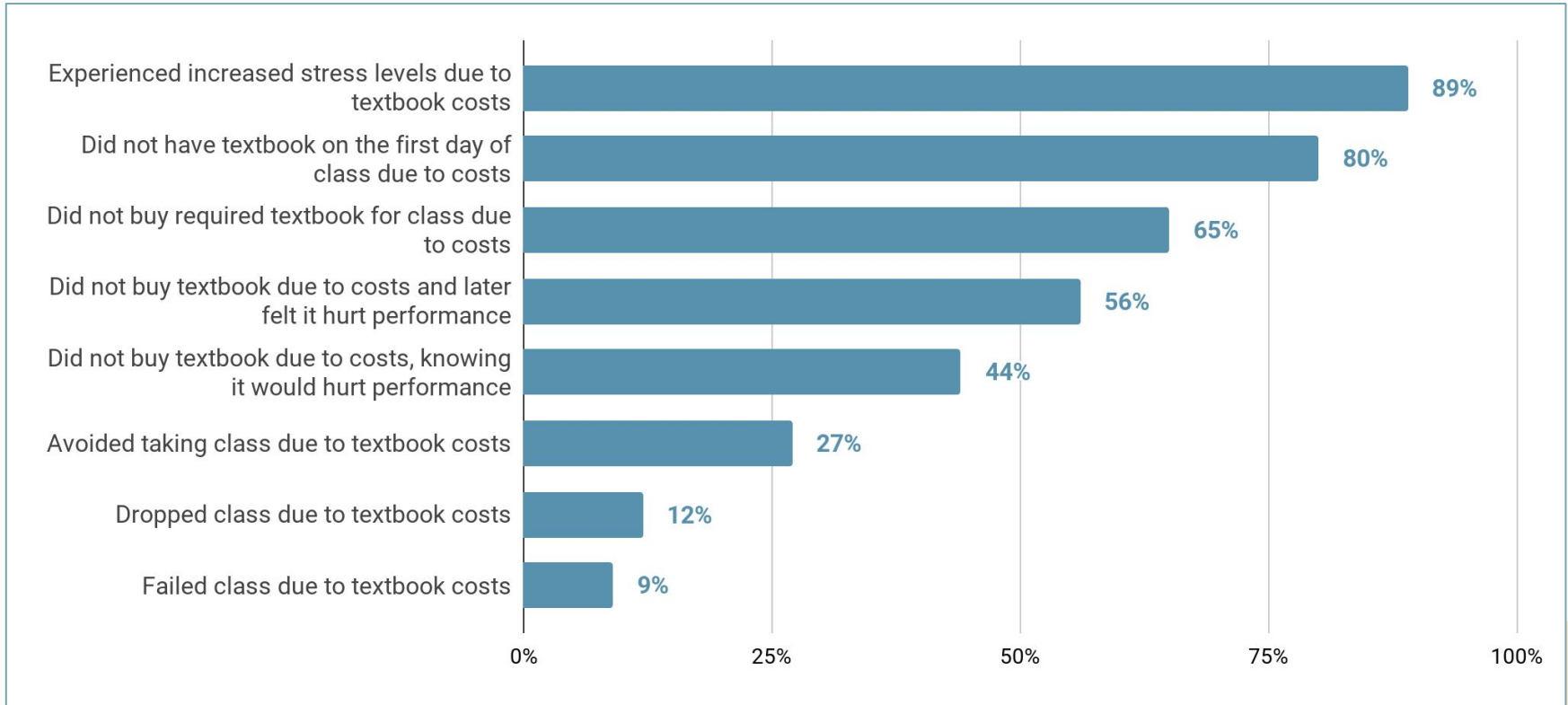
What is your experience with OER?

- I'm already an OER user
- I'm familiar with OER but have not used any
- This is new to me!



Why might you use OER or
affordable resources in
your courses?

Textbook Affordability

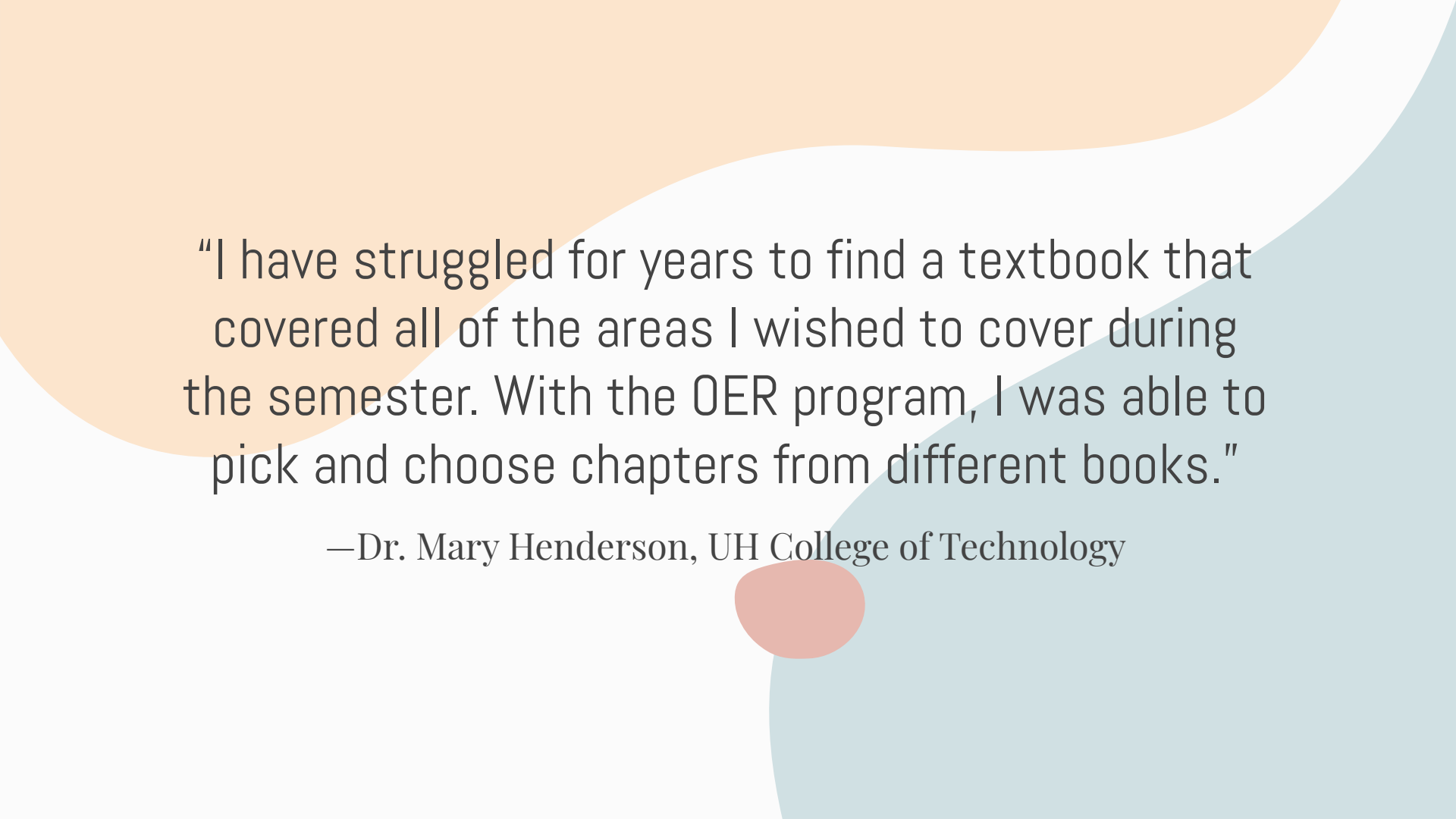


Affordability Spectrum

	Freely-Available to Students	Permissions to Adapt
Open Educational Resources	Yes	Yes
Open Access & Online Resources	Yes	No/Maybe
Library Resources	Yes	No
Used & Rental Textbook Market	No	No

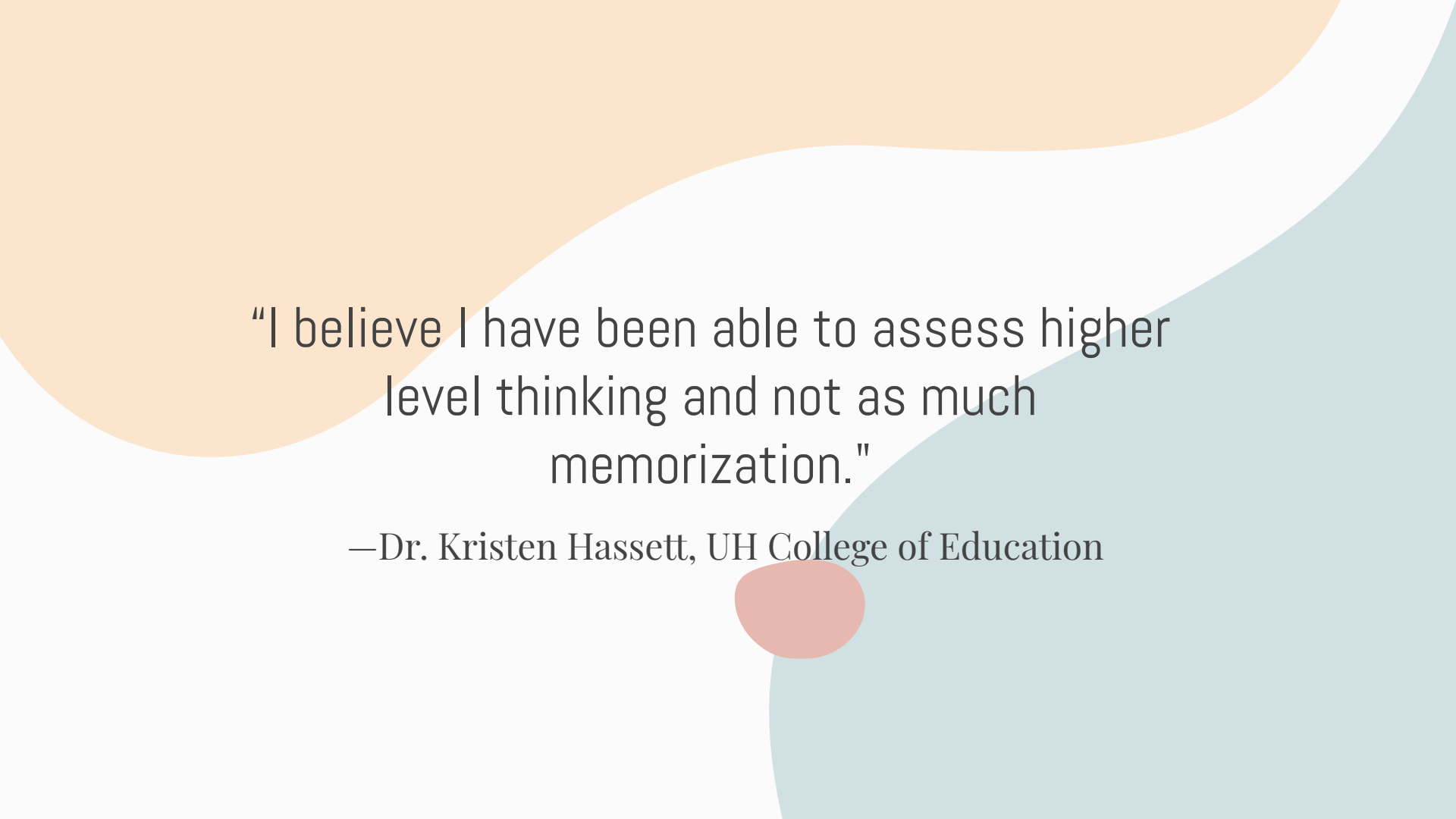
Benefits Beyond Affordability

- Every student has **immediate** and **unlimited access** to course content
- Ability to **use, edit, and adapt** existing materials
- Availability in a **variety of formats** (e.g., HTML, PDF, ePUB)
- **Ownership** of the content forever
- **Flexibility** in when and whether to move to a new edition



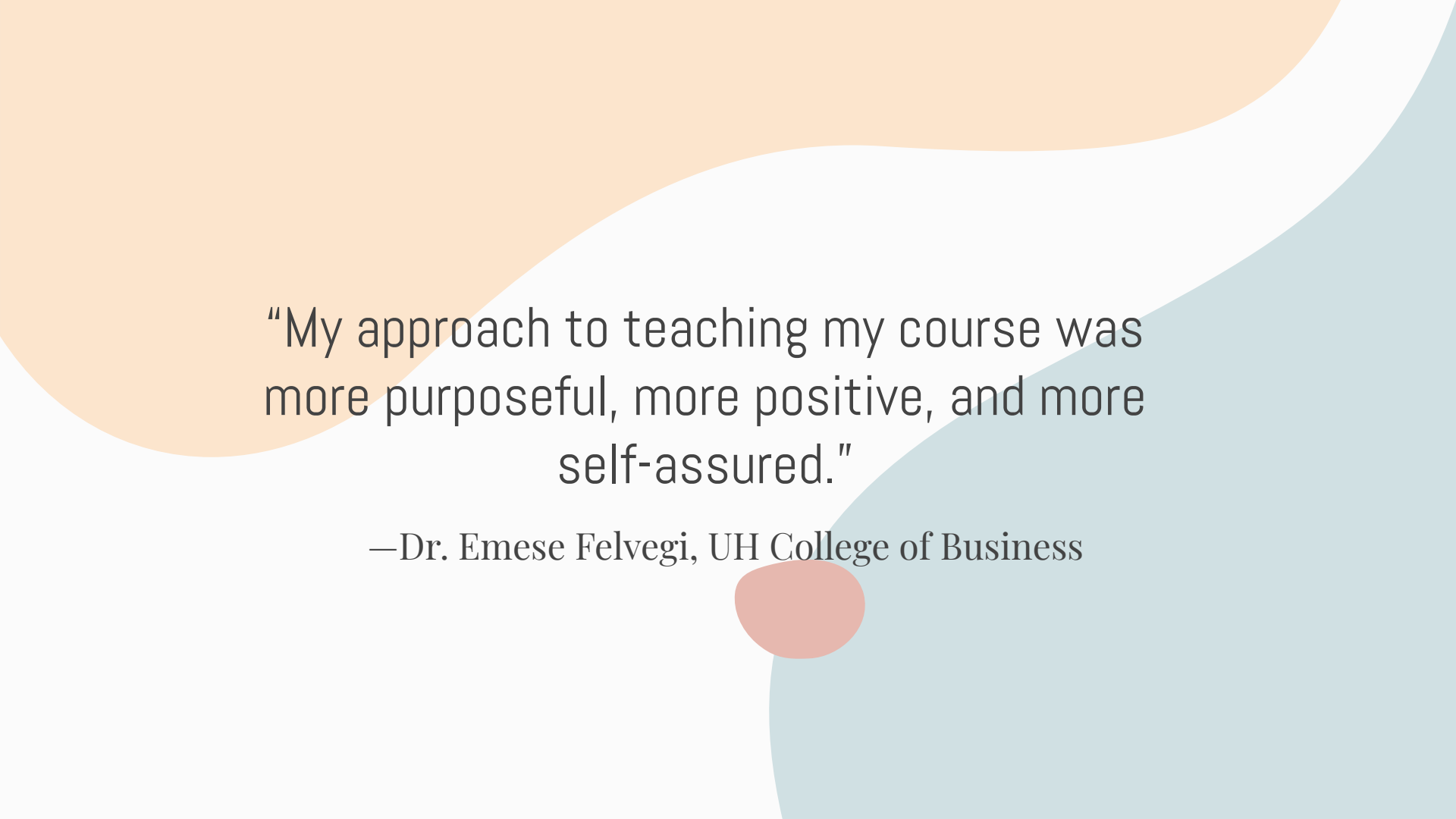
“I have struggled for years to find a textbook that covered all of the areas I wished to cover during the semester. With the OER program, I was able to pick and choose chapters from different books.”

—Dr. Mary Henderson, UH College of Technology



"I believe I have been able to assess higher
level thinking and not as much
memorization."

—Dr. Kristen Hassett, UH College of Education

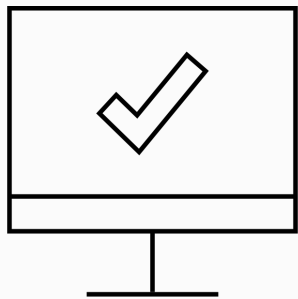


“My approach to teaching my course was more purposeful, more positive, and more self-assured.”

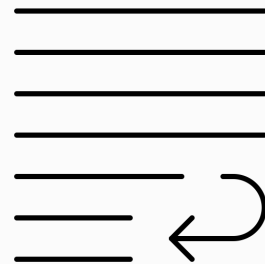
—Dr. Emese Felvegi, UH College of Business

The background features a light blue abstract shape on the left and a light orange circle on the right. The text is centered in a black serif font.

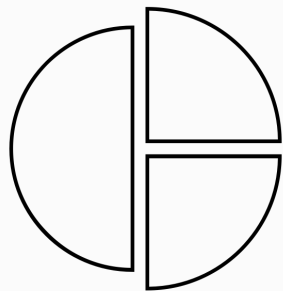
What does it really look
like to use OER?



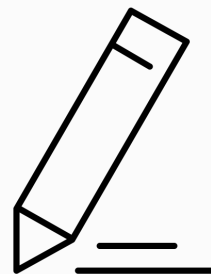
Use existing OER as-is



Adapt existing OER



Combine parts from several
existing OER

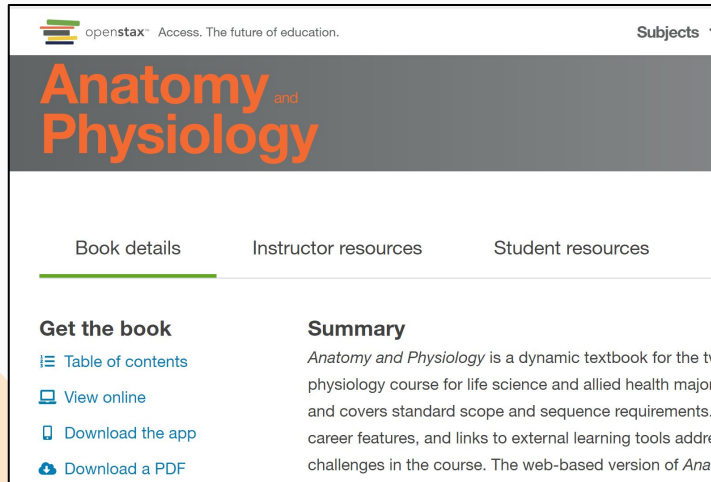


Write original content

Make modifications to an existing open textbook

Original

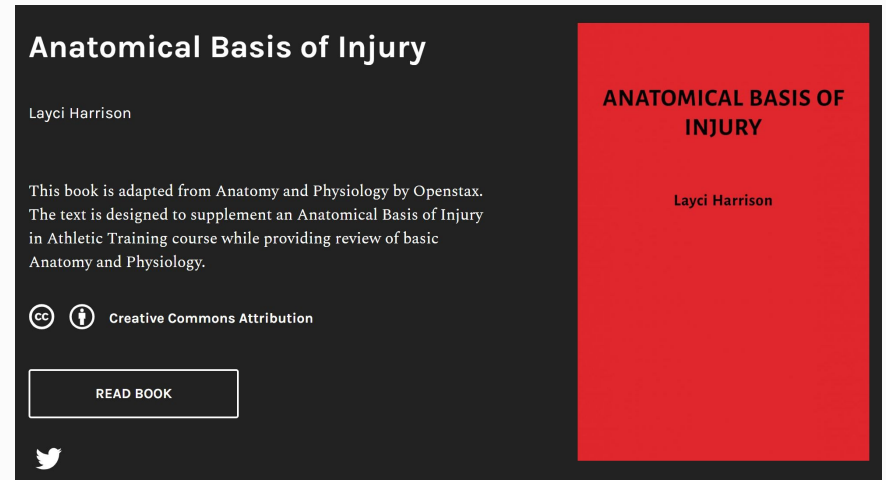
Anatomy and Physiology by OpenStax



The screenshot shows the OpenStax website interface for the textbook 'Anatomy and Physiology'. At the top, the OpenStax logo and tagline 'Access. The future of education.' are visible, along with a 'Subjects' dropdown menu. The main title 'Anatomy and Physiology' is prominently displayed in orange and white. Below the title, there are three navigation tabs: 'Book details' (which is selected and underlined), 'Instructor resources', and 'Student resources'. Under the 'Book details' tab, there are two columns. The left column, titled 'Get the book', contains four links: 'Table of contents', 'View online', 'Download the app', and 'Download a PDF'. The right column, titled 'Summary', contains a paragraph of text: 'Anatomy and Physiology is a dynamic textbook for the t physiology course for life science and allied health major and covers standard scope and sequence requirements, career features, and links to external learning tools addre challenges in the course. The web-based version of Ana

Adaptation

Anatomical Basis of Injury by Dr. Layci Harrison



The screenshot shows the cover page of the textbook 'Anatomical Basis of Injury' by Layci Harrison. The page has a dark background. The title 'Anatomical Basis of Injury' is at the top in white. Below it, the author's name 'Layci Harrison' is listed. A paragraph of text describes the book: 'This book is adapted from Anatomy and Physiology by Openstax. The text is designed to supplement an Anatomical Basis of Injury in Athletic Training course while providing review of basic Anatomy and Physiology.' Below this text are Creative Commons Attribution icons (CC BY) and a 'READ BOOK' button. On the right side, there is a red vertical banner with the title 'ANATOMICAL BASIS OF INJURY' and the author's name 'Layci Harrison' in white text. A small Twitter icon is visible at the bottom left of the page.

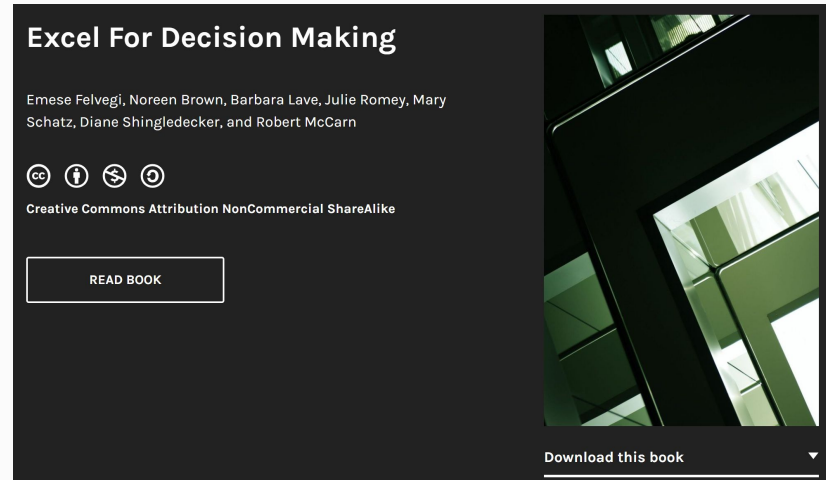
Combine OER, modify, add original content

Originals

- [How to Use Microsoft Excel: The Careers in Practice Series](#)
- [Beginning Excel](#)


Adaptation

[Excel for Decision Making](#) by Dr. Emese Felvegi



Excel For Decision Making

Emese Felvegi, Noreen Brown, Barbara Lave, Julie Romey, Mary Schatz, Diane Shingledecker, and Robert McCarn

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[READ BOOK](#)

[Download this book](#)

The image shows a book cover for 'Excel For Decision Making'. The cover is dark with white text. It lists the authors: Emese Felvegi, Noreen Brown, Barbara Lave, Julie Romey, Mary Schatz, Diane Shingledecker, and Robert McCarn. Below the authors' names are four Creative Commons icons: CC, BY (person), NC (dollar sign with slash), and SA (circular arrow). Below the icons is the text 'Creative Commons Attribution NonCommercial ShareAlike'. There is a white button with the text 'READ BOOK'. On the right side of the cover is a photograph of a modern building with glass windows and a green tint. At the bottom right, there is a link 'Download this book' with a dropdown arrow.

Write original content and make it open

Lab manual

[KIN 4370: Virtual Exercise Testing and Prescription Lab Manual](#) by Dr. Melissa Markofski



KIN 4370: Virtual Exercise Testing and Prescription Lab Manual

Melissa Markofski

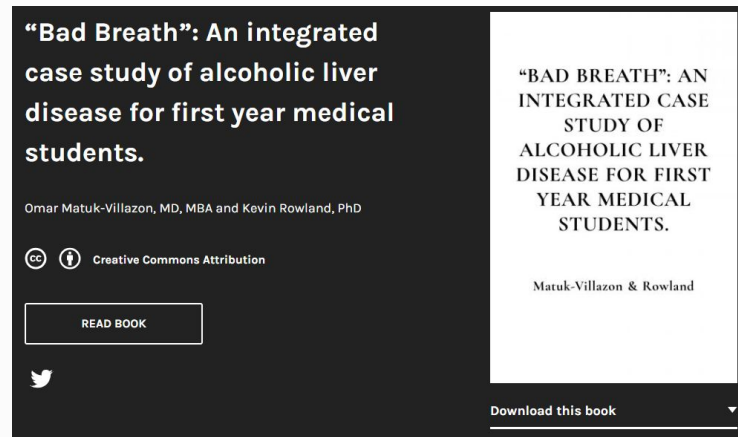
This book is a lab manual to accompany the Virtual KIN 4370 course: Exercise Testing and Prescription. The chapter for each lab activity includes background information, protocol description, comprehension questions, and tables to help with test interpretation (as required). The lab activities have been modified from face-to-face environment to an at-home virtual learning course.

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Case study

[“Bad Breath”: An integrated case study of alcoholic liver disease for first year medical students](#) by Dr. Omar Matuk-Villazon and Dr. Kevin Rowland



“Bad Breath”: An integrated case study of alcoholic liver disease for first year medical students.

Omar Matuk-Villazon, MD, MBA and Kevin Rowland, PhD

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“BAD BREATH”: AN INTEGRATED CASE STUDY OF ALCOHOLIC LIVER DISEASE FOR FIRST YEAR MEDICAL STUDENTS.

Matuk-Villazon & Rowland

Select OER in the Health Sciences

OpenStax - textbooks in Anatomy and Physiology, Biology, and Concepts of Biology

Open Textbook Library - 20 textbooks in “Medicine” category

Merlot Community Portals - Communication Sciences and Disorders, Health Sciences, Technical Allied Health

Open RN - Nursing Pharmacology textbook, more to come

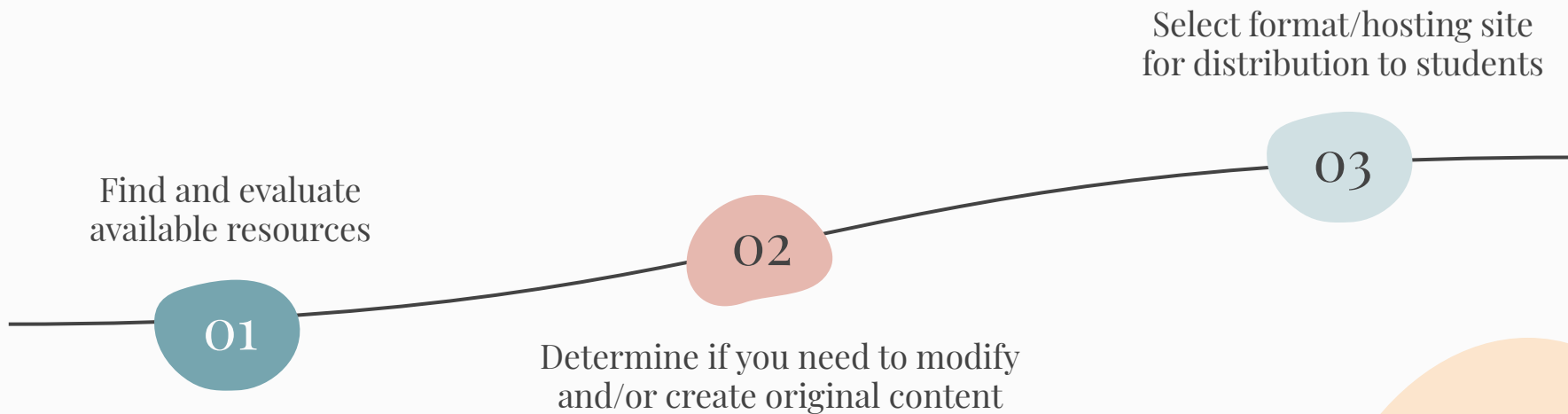
Open Pedagogy

Engaging students as creators of information rather than simply consumers

Products are openly-licensed, live outside the classroom, impact the greater community

Open Pedagogy Notebook: <http://openpedagogy.org>

Getting Started Workflow



Follow licensing terms of the resources you use

Support Available at UH

Librarian consultations

- Ariana Santiago, OER Coordinator, asantiago2@uh.edu

Resources

- [Find OER](#)
- [Adapt/create OER](#) on Pressbooks
- [Learn more](#) with the *OER Handbook*

[Alternative Textbook Incentive Program](#) - **2021 application info TBA**

References

Elder, A. K. (2019). The OER Starter Kit. Ames, IA: Iowa State University Digital Press. DOI: <https://doi.org/10.31274/isudp>

Hare, S., Kirschner, J., and Reed, M. (2020). [Marking open and affordable courses: Best practices and case studies](#). Mavs Open Press.

Jenkins, J. J., Sánchez, L. A., Schraedley, M. A. K., Hannans, J., Navick, N., & Young, J. (2020). Textbook broke: Textbook affordability as a social justice issue. *Journal of Interactive Media in Education*, 2020(1), 3. DOI: <http://doi.org/10.5334/jime.549>

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UT Arlington Libraries. (2020). [Introduction to Open Pedagogy](#).

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Additional Resources

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[Modifying an Open Textbook: What You Need to Know](#)

[OER Accessibility Toolkit](#)

[OER Evaluation Criteria](#)

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