

Marshall University

## Marshall Digital Scholar

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Librarian Research

Libraries and Online Learning

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4-9-2021

### Establishing Open Textbooks at Marshall University

Larry Sheret

Jingping Zhang

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# Establishing Open Textbooks at Marshall University

Open Textbook Adoption, Statistics and Planning

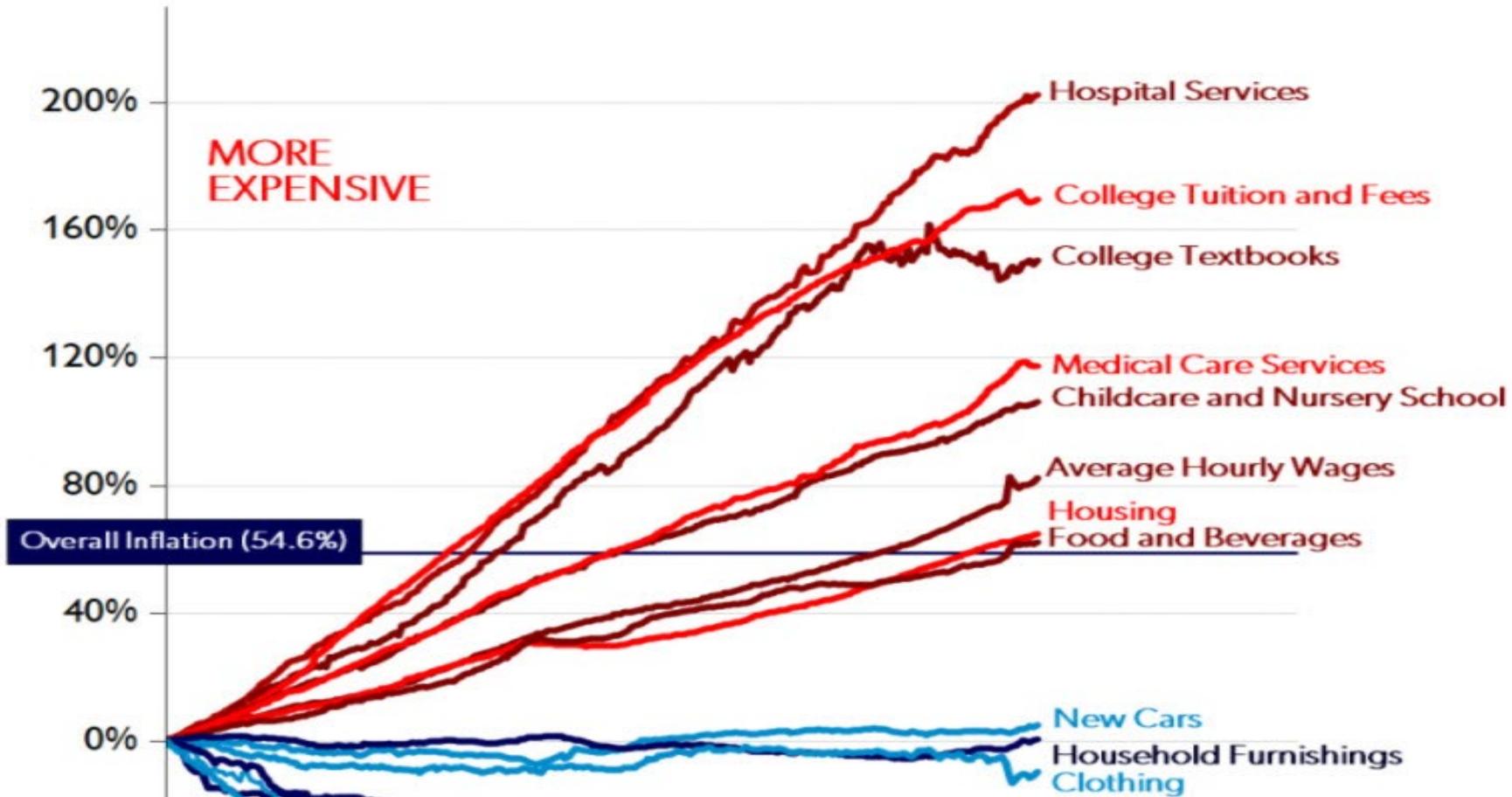
Larry Sheret and Jingping Zhang

April 9, 2021

West Virginia Library Association Spring Fling

# Price Changes: January 2000 to December 2020

## Selected US Consumer Goods and Services, Wages



Bureau of Labor Statistics

# Marshall Univ. Libraries & Online Learning

Pre-2017 Individual Faculty and Chemistry Dept.

2017 (Fall) Assoc. Dean of Libraries on sabbatical to research OER

2018 (Fall) SGA and Library begin collaboration

2019 (January) Scholarly Communications & OER Librarian position

2019 (February) Marshall Digital Scholar Specialist position supports OER

2019 (April) MU joins the [Open Textbook Network](#)

2019 (May) [OER LibGuide published](#)

2019 (August) [OER Workshop at iPEDS](#)/Center for Teaching & Learning

2020 (January) Open Textbook Workshop and Paid Review (29)

2020 (March) Open Textbook Workshop and Paid Review (13)

2021 WV State Open Textbook Grants (15)

2021 **Creating Discovery Tools for Open Textbooks**

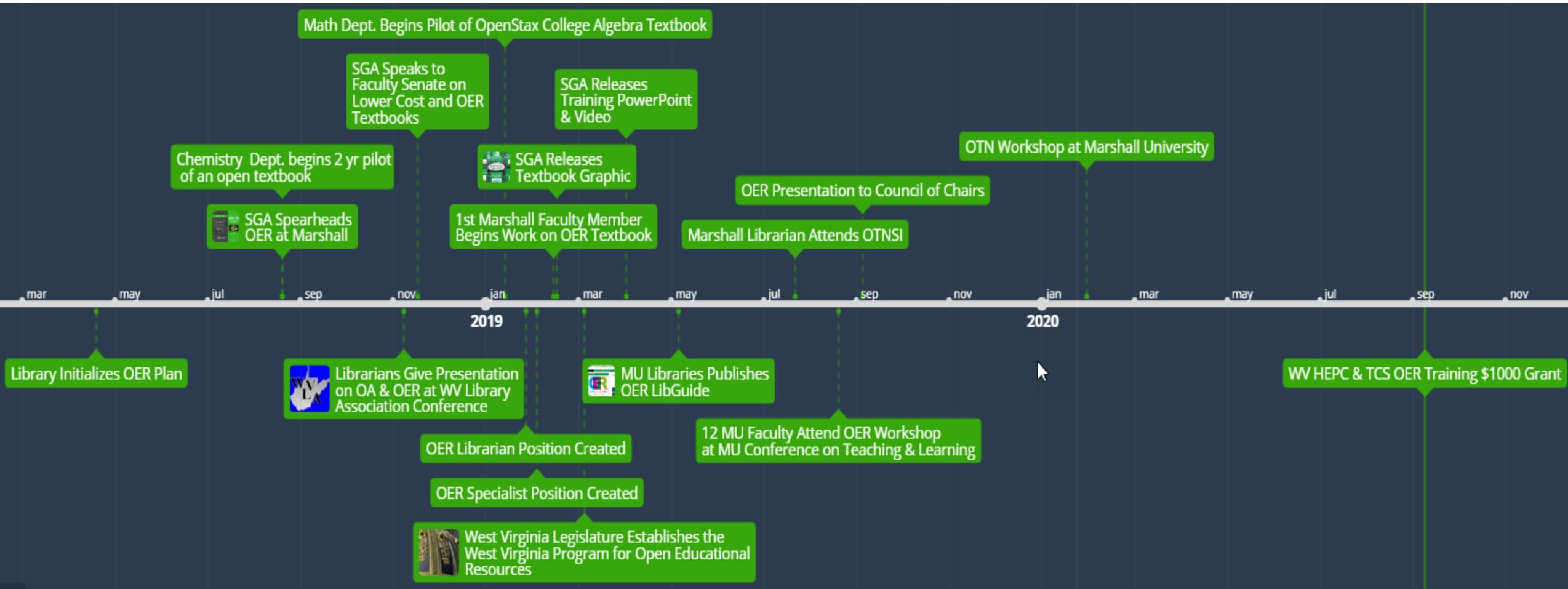
2021 **Marshall Affordable Textbooks Listing, Fall 2021**

# Stakeholders

- Marshall Administration
- Student Government Association (SGA)
- Faculty
- Bookstore (Follett)
- Libraries & Online Learning
- Center for Teaching and Learning (CTL)
- The State of West Virginia (WVLC)

# OER at Marshall 2018-2021

- 2018 Chemistry Dept. pilots OpenStax Fundamentals of Chemistry
- 2018 & 19 The Marshall Administration provided bonus funds to Departments that adopted an Open Textbook (Math)
- 2020 The Marshall Administration paid \$250 stipends to 35 faculty who attended an Open Textbook Workshop and submitted a review to the Open Textbook Library
- 2021 WV State offered \$1000 grants for 15 MU faculty to switch to Open Textbooks



# Registration Icons

MyMU MUOnLine

MARSHALL UNIVERSITY

ABOUT MARSHALL FUTURE STUDENTS CURRENT STUDENTS

## Banner Extraction and Reporting Tool (MU BERT)

REGISTRAR HOME REGISTRATION INFO CONTACT

### PSC Undergraduate Listing, Fall 2019 (AUG 26-DEC 13)

**PSC 104 - Am Natl Govt & Politics (CT)**  
Next Anticipated Offering: Spring 2020

| CRN  | SEC | CREDITS | DAYS | TIME            | LOCATION | INSTRUCTOR(S)    | TEXTBOOK INFO |
|--|-----|---------|------|-----------------|----------|------------------|---------------|
| 3675   | 101 | 3       | MWF  | 11:00a - 11:50a | SH 433   | Beller, Marybeth | 🚫             |
| ATTRIBUTES: (American Institutions) (Critical Thinking) (No Textbook Required) (Core II Social Sciences) (Writing Intensive)           |     |         |      |                 |          |                  |               |
| 3676   | 102 | 3       | TR   | 09:30a - 10:45a | SH 433   | Warner, Jamie    | ☰ 💰✓          |
| ATTRIBUTES: (Affordable Education Materials) (American Institutions) (Critical Thinking) (Core II Social Sciences) (Writing Intensive) |     |         |      |                 |          |                  |               |
| 3677   | 103 | 3       | TR   | 12:30p - 1:45p  | SH 435   | Arthur, Charles  | ☰ 💰✓          |
| ATTRIBUTES: (Affordable Education Materials) (American Institutions) (Critical Thinking) (Core II Social Sciences)                     |     |         |      |                 |          |                  |               |
| 3678   | 104 | 3       |      |                 | WEB      | Davis, George    | ☰             |

NOTES: 2ND 8 WEEKS

No Textbook Required

Affordable Option

# High Yield Courses

SOC 200  
MTH 121  
MTH 130  
BSC 104  
BSC 105  
PSY 201  
ACC 215  
ACC 216  
PHY 201  
PHY 203  
HS 220

BSC 120  
BSC 121  
BSC 227  
BSC 228  
MTH 102  
ECN 250  
ECN 253  
THE 112  
CMM 207  
MUS 142  
MTH 127



# Adoptions

Yes 13/Maybe 19 out of 41 participants



**Open Textbook  
Library**

| workshop date | reviews w | survey - textbook   | survey - plan to adop | survey - course |  |
|---------------|-----------|---|-----------------------|-----------------|--|
| 1/31/2020     | 1         | Libro Libre: Beginning Spanish  | maybe                 | Spg 2020        | Libro Libre: Beginning Spanish   |
| 1/31/2020     | 1         | World Regional Geography  | yes                   | Fall 2020       | GEO317 World R World Regional Geography  |
| 1/31/2020     | 1         | Digital Foundations: Introduction to Media Design with the Adobe Creative Cloud | yes                   | Fall 2020       | JMC 241 Digital Foundations: Introduction to Media Design with the Adobe Creative Cloud      |
| 1/31/2020     | 1         | Introduction to Sociology   | yes                   | Fall 2021       | SOC200 Introduction to Sociology   |
| 1/31/2020     | 0         |   | maybe                 | Fall 2021       | SOC 200  |
| 1/31/2020     | 1         |   |                       |                 | Algebra and Trigonometry   |
| 1/31/2020     | 1         | Libro Libre: Beginning Spanish  | maybe                 |                 | Span 101 102 Libro Libre: Beginning Spanish  |
| 1/31/2020     | 1         | Educational Psychology  | yes                   | Fall 2021       | EDF 619 Educatic Educational Psychology  |
| 1/31/2020     | 1         | The Ideologies of Lived Space in Literary Texts, Ancient and Modern             | maybe                 |                 | The Ideologies of Lived Space in Literary Texts, Ancient and Modern                          |
| 1/31/2020     | 1         |   | no                    |                 | U.S. History   |
| 1/31/2020     | 1         | Microbiology for Allied Health Students   | maybe                 | Spg 2021        | BSC 250 Microbiology for Allied Health Students  |
| 1/31/2020     | 1         | Child, Family, and Community  | maybe                 | Spg 2021        | ECE 215 Family R Child, Family, and Community  |
| 1/31/2020     | 1         | Choosing & Using Sources: A Guide to Academic Research                          | yes                   | Fall 2021       | PSC 211 Choosing & Using Sources: A Guide to Academic Research                               |
| 1/31/2020     | 1         | Exploring Movie Construction & Production: What's so exciting about movies?     | maybe                 | Spg 2021        | ENG 232 Exploring Movie Construction & Production: What's so exciting about movies?          |
| 1/31/2020     | 1         |   |                       |                 | Animals & Ethics 101: Thinking Critically About Animal Rights                                |
| 1/31/2020     | 1         | EmpoWord: A Student-Centered Anthology & Handbook for College Writers           | yes                   | Fall 2021       | ENG201 EmpoWord: A Student-Centered Anthology & Handbook for College Writers                 |
| 1/31/2020     | 1         | Deutsch im Blick  | maybe                 | Fall 2021       | GER 101 Deutsch im Blick   |
| 1/31/2020     | 1         | Naming the Unnameable: An Approach to Poetry for New Generations                | maybe                 |                 | Naming the Unnameable: An Approach to Poetry for New Generations                             |
| 1/31/2020     | 1         |   |                       |                 | Comprehensive Individualized Curriculum and Instructional Design: Curriculum and Instruction |
| 1/31/2020     | 1         | Human Nutrition   | maybe                 |                 | DTS 210 Human Nutrition  |
| 1/31/2020     | 1         | Introduction to Environmental Science   | maybe                 | Spg 2021        | SFT 498 Introduction to Environmental Science  |
| 1/31/2020     | 1         | Let's Get Writing!  | yes                   | Fall 2021       | English 101 Let's Get Writing!   |
| 1/31/2020     | 1         | Introduction to Environmental Science   | yes                   | Fall 2020       | GEO422 Introduction to Environmental Science   |
| 1/31/2020     | 0         |   |                       |                 |  |
| 1/31/2020     | 1         | Ovid, Amores (Book 1)   | maybe                 | Fall 2021       | Latin 201 Ovid, Amores (Book 1)  |
| 1/31/2020     | 1         | Writing for Strategic Communication Industries                                  | yes                   | Fall 2021       | ENG 204 Writing for Strategic Communication Industries                                       |
| 1/31/2020     | 1         |   | no                    |                 | Becoming America: An Exploration of American Literature from Precolonial to Post-Revolution  |
| 1/31/2020     | 1         | Introduction to Sociology   | yes                   | Fall 2021       | SOC 200 Introduction to Sociology  |
| 1/31/2020     | 1         | Math in Society   | maybe                 | Fall 2020       | MTH 121 Math in Society  |
| 3/19/2020     | 1         | The American Yawp Vol. I: To 1877   | maybe                 | Spg 2021        | HST 231 The American Yawp Vol. I: To 1877  |
| 3/19/2020     | 0         |   |                       |                 |  |
| 3/19/2020     | 1         | A Different Road To College: A Guide For Transitioning Non-Traditional Students | maybe                 | Fall 2021       | COUN 606 A Different Road To College: A Guide For Transitioning Non-Traditional Students     |
| 3/19/2020     | 0         |   | maybe                 |                 |  |
| 3/19/2020     | 1         | Calculus: Early Transcendentals   | maybe                 | Fall 2022       | MTH 229 Calculus: Early Transcendentals  |
| 3/19/2020     | 1         | Math in Society   | maybe                 | Spg 2022        | MTH 121 Math in Society  |
| 3/19/2020     | 0         |   | maybe                 |                 |  |
| 3/19/2020     | 1         | The Word on College Reading and Writing   | yes                   | Fall 2020       | ENG 160 The Word on College Reading and Writing  |
| 3/19/2020     | 1         | Open Research   | yes                   | Fall 2021       | CI 797 Open Research   |
| 3/19/2020     | 1         | Introduction to Women, Gender, Sexuality Studies                                | yes                   | Fall 2021       | Sociology of Sex Introduction to Women, Gender, Sexuality Studies                            |
| 3/19/2020     | 0         |   |                       |                 |  |
| 3/19/2020     | 1         | Introduction to Sociology   | maybe                 |                 | Introduction to Sociology  |

# West Virginia **House Bill 4729**

Passed March 3, 2020; in effect ninety days from passage.

AN ACT to amend and reenact [§18B-10-14](#) of the Code of West Virginia, 1931...

(6) Encourage and incentivize the use of emerging technologies, such as electronic textbooks, online textbooks, print-on-demand services, and other open resource materials

# OPEN EDUCATION RESOURCES

Grant Application Questions



**15 Marshall Faculty to be awarded the \$1,000 grant after adopting an Open Textbook, using it one semester, and filling out a survey of their experience at the end. The library assisted at least 8 faculty to find an appropriate open textbook.**

| Date      | Enrollm   | Course #   | Course Name                  | Open Textbook Title     | Publisher      | URL | Replaces                    | Commercial Text Cost       | Total Savings   | Total Savings    | Adoption  | last name  | first name |            |
|-----------|-----------|------------|------------------------------|-------------------------|----------------|-----|-----------------------------|----------------------------|-----------------|------------------|-----------|------------|------------|------------|
| 2018 Fall | 285       | CHM 211    | Principles of Chemistry      | Principles of Chemistry | OpenStax       |     |                             | \$74.70-\$186.75           | \$21,290        | \$53,224         | Dept      | Castellani | Michael    | castella@  |
| 2018 Fall | 98 (use 5 | CHM 212    | Principles of Chemistry      | Principles of Chemistry | OpenStax       |     |                             | \$74.70-\$186.75           | \$1,046         | \$2,615          | Dept      | Castellani | Michael    | castella@  |
|           |           |            |                              |                         |                |     |                             |                            | <b>\$22,336</b> | <b>\$55,839</b>  |           |            |            |            |
| 2019 Spg  | 167       | CHM 211    | Principles of Chemistry      | Principles of Chemistry | OpenStax       |     |                             | \$74.70-\$186.75           | \$12,475        | \$31,187         | Dept      | Castellani | Michael    | castella@  |
| 2019 Spg  | 221       | CHM 212    | Principles of Chemistry      | Principles of Chemistry | OpenStax       |     |                             | \$74.70-\$186.75           | \$598           | \$1,494          | Dept      | Castellani | Michael    | castella@  |
| 2019 Fall | 20        | GEO422     | Environmental Science        | 4 books...see comment   | U Cal          |     | WVROCKS (MU uses Enviro     | \$63 used -\$74            | \$1,260         | \$1,480          | OTN       | Walz       | Anita      | walz@ma    |
| 2019 Fall | 448 (HT   | MTH (127 & | Algebra or                   | Algebra & Trigonome     | Opensta        |     | Pearson's College Algebra   | .65/\$64.99 w/o MyMathLab  | \$29,916        | \$29,916         | SGA       | Akinsete   | Alfred     | akinsete@  |
| 2019 Fall | 70        | GEO 317    |                              | World Regional Geog     | OTL            |     | Fouberg                     | 30 rental - \$136 hardcopy | \$2,100         | \$9,520          | OTN       | Leonard    | Jamie      | leonard@   |
|           |           |            |                              |                         |                |     |                             |                            | <b>\$46,349</b> | <b>\$73,597</b>  |           |            |            | +          |
| 2020 Spg  | 180       | CHM 211    | Principles of Chemistry      | Principles of Chemistry | OpenStax       |     |                             | \$74.70-\$186.75           | \$13,320        | \$33,615         | Dept      | Castellani | Michael    | castella@  |
| 2020 Spg  | 108       | CHM 212    | Principles of Chemistry      | Principles of Chemistry | OpenStax       |     |                             | \$74.70-\$186.75           | \$375           | \$930            | Dept      | Castellani | Michael    | castella@  |
| 2020 Spg  | 20        | GEO422     | Environmental Science        | 4 books...see comment   | U Cal          |     | WVROCKS (MU uses Enviro     | \$63 used -\$74            | \$1,260         | \$1,480          | OTN       | Walz       | Anita      | walz@ma    |
| 2020 Spg  | 255/183   | MTH (127 & | Algebra or                   | Algebra & Trigonome     | Opensta        |     | Pearson's College Algebra   | .65/\$64.99 w/o MyMathLab  | <b>\$11,893</b> | <b>\$11,893</b>  | SGA       | Akinsete   | Alfred     | akinsete@  |
| 2020 Spg  | 35        | GEO 317    |                              | World Regional Geog     | OTL            |     | Fouberg                     | 30 rental - \$136 hardcopy | \$1,050         | \$4,760          | OTN       | Leonard    | James      | leonard@   |
| 2020 Sum  | 3         | ENG 160    | Academic Writing             | The Word on College     | OTL            |     |                             | \$45                       | <b>\$135</b>    | <b>\$135</b>     | OT Facult | McClenne   | Molly      | mcclenne   |
| 2020 Fall | 308       | CHM 211    | Principles of Chemistry      | Principles of Chemistry | OpenStax       |     |                             | \$74.70-\$186.75           | \$23,008        | \$57,288         | Dept      | Castellani | Michael    | castella@  |
| 2020 Fall | 210       | CHM 212    | Principles of Chemistry      | Principles of Chemistry | OpenStax       |     |                             | \$74.70-\$186.75           | \$1,110         | \$2,790          | Dept      | Castellani | Michael    | castella@  |
| 2020 Fall | 20        | GEO422     | Environmental Science        | 4 books...see comment   | U Cal          |     | WVROCKS (MU uses Enviro     | \$63 used -\$74            | \$1,260         | \$1,480          | OTN       | Walz       | Anita      | walz@ma    |
| 2020 Fall | 600/432   | MTH (127 & | Algebra or                   | Algebra & Trigonome     | Opensta        |     | Pearson's College Algebra   | .65/\$64.99 w/o MyMathLab  | <b>\$28,076</b> | <b>\$28,076</b>  | SGA       | Akinsete   | Alfred     | akinsete@  |
| 2020 Fall | 40        | GEO 317    |                              | World Regional Geog     | OTL            |     | Fouberg                     | 30 rental - \$136 hardcopy | \$1,200         | \$5,440          | OTN       | Leonard    | Jamie      | leonard@   |
| 2020 Fall | 30        | JMC 241    | Media Design                 | Digital Foundations:    | OTL            |     |                             |                            |                 |                  | OTN       | Ingersoll  | Chris      | ingersoll@ |
| 2020 Fall | 24        | SOC 200-10 | Intro to Sociology           | Intro to Sociology      | Lumen Learning |     | Discover Sociology, 3rd ed, | \$14                       | \$336           | \$336            | OTN       | Sullivan   | Donna      | sullivd@n  |
| 2020 Fall | 25        | SOC 200H-  | Intro to Sociology           | Intro to Sociology      | Lumen Learning |     | Discover Sociology, 3rd ed, | \$14                       | \$350           | \$350            | OTN       | Sullivan   | Donna      | sullivd@n  |
| 2020 Fall | 35        | SOC 200-11 | Intro to Sociology           | Intro to Sociology      | Lumen Learning |     | Discover Sociology, 3rd ed, | \$14                       | \$490           | \$490            | OTN       | Sullivan   | Donna      | sullivd@n  |
| 2020 Fall | 30        | SOC 313    | Contemporary Social Problems | Social Problems         | Lumen Learning |     | Social Problems 13th ed, by | \$18                       | \$540           | \$540            | OTN       | Sullivan   | Donna      | sullivd@n  |
|           |           |            |                              |                         |                |     |                             |                            | <b>\$84,403</b> | <b>\$149,603</b> |           |            |            |            |

|           |       |                 |                     |                                |                |                             |                    |          |          |           |            |           |            |
|-----------|-------|-----------------|---------------------|--------------------------------|----------------|-----------------------------|--------------------|----------|----------|-----------|------------|-----------|------------|
| 2021 Spg  |       | MTH (127 & 130) | Algebra & Trigonome | Openstax – ISBN: 9781938168376 |                |                             |                    |          |          |           |            |           |            |
| 2021 Spg  | 24    | SOC 200-207     | Intro to S          | Intro to Sociology             | Lumen Learning | Discover Sociology, 3rd ed, | \$14               | \$336    | \$336    | OTN       | Sullivan   | Donna     | sullivd@n  |
| 2021 Spg  | 24    | SOC 200H-       | Intro to So         | Intro to Sociology             | Lumen Learning | Discover Sociology, 3rd ed, | \$14               | \$336    | \$336    | OTN       | Sullivan   | Donna     | sullivd@n  |
| 2021 Spg  | 35    | SOC 200-2       | Intro to So         | Intro to Sociology             | Lumen Learning | Discover Sociology, 3rd ed, | \$14               | \$490    | \$490    | OTN       | Sullivan   | Donna     | sullivd@n  |
| 2021 Spg  | 22    | GEO 422         | Environme           | Introduction to Envir          | OTL            |                             | \$63 used -\$74    | \$1,386  | \$1,628  | OTN       | Anita      | Walz      | walz@ma    |
| 2021 Spg  | 178   | CHM 211         | Principles          | Chemistry                      | OpenStax       |                             | \$74.70-\$186.75   | \$13,172 | \$33,108 | Dept      | Castellani | Michael   | castella@  |
| 2021 Spg  | 9/104 | CHM 212         | Principles          | Chemistry                      | OpenStax       |                             | \$74.70-\$186.75   | \$666    | \$1,674  | Dept      | Castellani | Michael   | castella@  |
| 2021 Fall |       | CHM 211         | Principles          | Chemistry                      | OpenStax       |                             | \$74.70-\$186.75   |          |          | Dept      | Castellani | Michael   | castella@  |
| 2021 Fall |       | CHM 212         | Principles          | Chemistry                      | OpenStax       |                             | \$74.70-\$186.75   |          |          | Dept      | Castellani | Michael   | castella@  |
| 2021 Fall |       | SOC 200         |                     | Introduction to Socio          | OTL            |                             | contacted 4/7/2021 |          |          | OTN       | Laubach    | Martin    | laubach@   |
| 2021 Fall |       | EDF 619         |                     | Educational Psycholo           | OTL            |                             |                    |          |          | OTN       | Davis      | Elbert    | davis513@  |
| 2021 Fall |       | PSC 211         |                     | Choosing & Using Soc           | OTL            |                             |                    |          |          | OTN       | Beller     | Marybeth  | beller@m   |
| 2021 Fall |       | ENG 201         |                     | EmpoWord: A Student            | OTL            |                             |                    |          |          | OTN       | Jones      | Sabrina   | wooten19   |
| 2021 Fall |       | ENG 101         |                     | Let's Get Writing!             | OTL            |                             |                    |          |          | OTN       | Walker     | Stephanie | walker65@  |
| 2021 Fall |       | ENG 204         |                     | Writing for Strategic          | OTL            |                             |                    |          |          | OTN       | Rucker     | Nathan    | rucker37@  |
| 2021 Fall |       | SOC 200         |                     | Introduction to Socio          | OTL            |                             |                    |          |          | OTN       | Noyongoy   | Boniface  | noyongoy   |
| 2021 Fall |       |                 |                     | Sociology of Sex and           | OTL            |                             |                    |          |          | OT Facult | Fondren    | Kristi    |            |
| 2021 Fall |       | CI 797          |                     | Marshall University            | OTL            |                             |                    |          |          | OT Facult | McFall     | Kimberly  | kimberly.r |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Tabyshali  | Anara     |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Trowbridg  | David     |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Smith      | Matt      |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Davis      | Elbert    |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Gratchev   | Slav      |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Ingersoll  | Chris     |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Jones      | Sabrina   |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Oudghiri-  | Amine     |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Nolte      | Ian       |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Johnson    | Kelli     |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Surber     | Sarah     |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Elizabeth  | James     |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Sardahi    | Yousef    |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Pu         | Cong      |            |
| 2021      |       |                 |                     |                                |                |                             |                    |          |          | HEPC/C&   | Zanter     | Mark      |            |

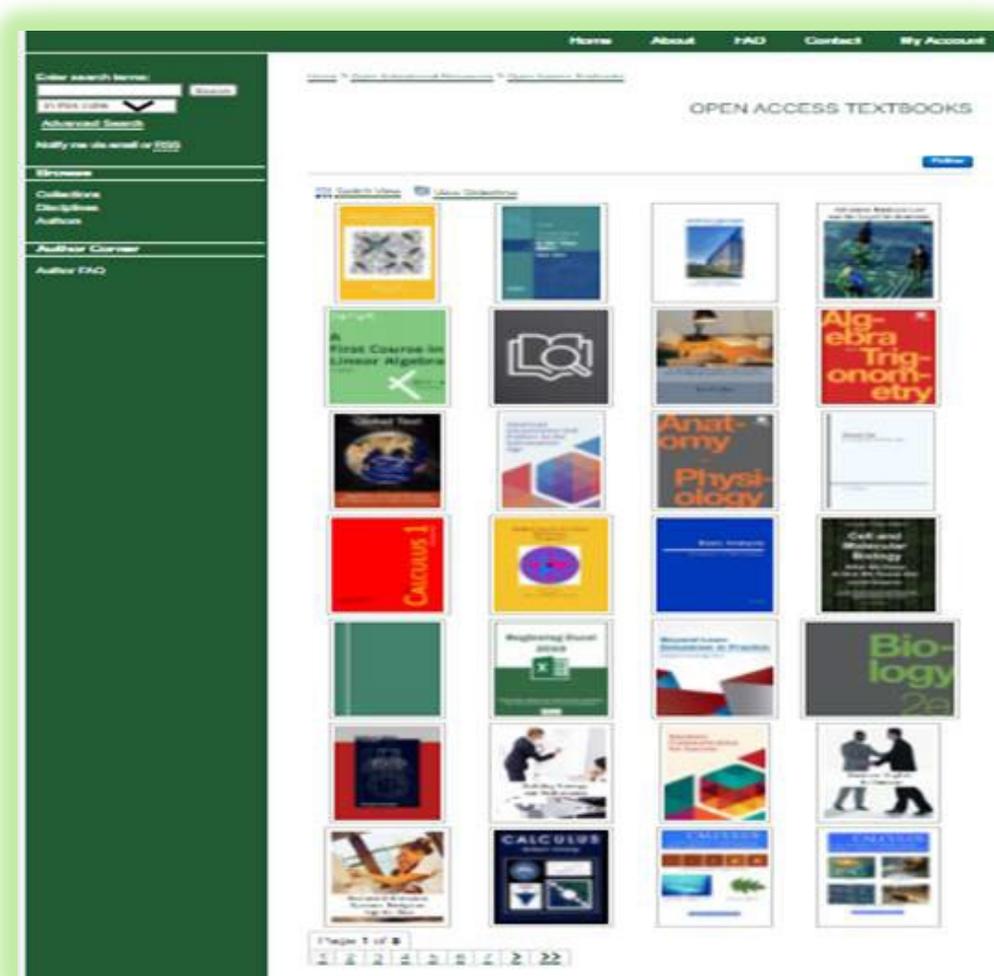


## Discovery Tools for Open Textbooks

- Many open textbooks are available, but they can be difficult and time consuming for faculty to find it. Therefore, we start to collect open textbooks and use Digital Commons/Marshall Digital Scholar platform to create Discovery Tools for Open Textbooks – open textbooks database. It provides a single interface for faculty to search and access open textbooks.
- Streamline access to open textbooks
- Save faculty time searching and collating materials from numerous open textbook platforms.
- Provide course materials/ open textbooks for faculty review and adoption that are no cost to students
- Improve access to course content for students

# Open Textbooks Database

<https://mds.marshall.edu/oa-textbooks/>



# Faculty Reviews

- <https://mds.marshall.edu/oa-textbooks/>
- See screenshot: click the title or the book cover or “Read More”.
- Click the button of Link to Full Text and then you will see the following screenshot (example)
- Click the “[\(8 reviews\)](#)” to see the review content.



The screenshot shows the Open Textbook Library interface. At the top left is the logo, a colorful hexagon with segments in orange, yellow, pink, purple, and blue. To its right is the text "Open Textbook Library". Further right is a search bar with the placeholder text "Search the Library" and a red "GO" button. Below the logo and search bar are navigation links: "Browse Subjects", "About Open Textbooks", "Submit", "Discovery", and "Open Education Network".

The main content area features a book listing for "A First Course in Linear Algebra" by Ken Kuttler. On the left is a green book cover with the title and author's name. To the right of the cover, the title "A First Course in Linear Algebra" is displayed, followed by a link to "(8 reviews)", a five-star rating (4.5 stars), and the author's name "Ken Kuttler, Brigham Young University". Below this, it lists "Copyright Year: 2017", "Publisher: Lyrx", and "Language: English".

Under the book listing, there is a section titled "Formats Available" with two orange buttons: "PDF" and "HARDCOPY".

To the right of the book listing is a "Table of Contents" section with the following items:

- 1 Systems of Equations
  - 1.1 Systems of Equations, Geometry
  - 1.2 Systems Of Equations, Algebraic Procedures
- 2 Matrices
  - 2.1 Matrix Arithmetic
  - 2.2 LU Factorization
- 3 Determinants
  - 3.1 Basic Techniques and Properties
  - 3.2 Applications of the Determinant
- 4  $\mathbb{R}^n$ 
  - 4.1 Vectors in  $\mathbb{R}^n$
  - 4.2 Algebra in  $\mathbb{R}^n$

A red arrow points from the bottom left towards the "(8 reviews)" link in the book listing.



## Open Educational Resources (OER): Home

A guide to help West Virginia librarians support and encourage OER initiatives.

- [Home](#)
- [Find K-12 OER](#)
- [Find Higher Ed OER](#)
- [Find Adult & Vocational OER](#)
- [Evaluate OER](#)
- [Create OER](#)
- [Funding & Incentives](#)
- [OER in WV](#)
- [Resources](#)

### §10-1-14a. West Virginia Program for Open Education Resources; material description.

During the 2019 Regular Session of the West Virginia Legislature, [House Bill 2853](#) established the West Virginia Program for Open Education Resources and added [section §10-1-14a](#) to the Code of West Virginia, 1931. This section provides the following definition for open educational resources:

*(2) "Open education resource materials" means teaching, learning and resource materials in any medium, digital or otherwise, that reside in the public domain or have been released under an open license that permits low cost access, use, adaptation and redistribution by others with no or limited restrictions.*

### What is OER?

"**Open Educational Resources** 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."

- [William and Flora Hewlett Foundation](#) (emphasis added)

OER can include:

- Textbooks
- Assignments, Handouts, Tests and Quizzes
- Audiovisual Resources, Sound Recordings, Photos, Illustrations
- Entire Courses, Lesson Plans
- Anything to help you teach as long as it is open.

It is not enough to be free. OER should also be "open." But what do we mean by open?

### The 5 Rs of Openness

- **Retain** – the right to make, own, and control copies of the content
- **Reuse** – the right to use the content in a wide range of ways (e.g., in a class, in a study group, on a website, in a video)
- **Revise** – the right to adapt, adjust, modify, or alter the content itself (e.g., translate the content into another language)
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