Developing Ancillaries, Supplements, and Assessment Resources to Improve Teaching with OER

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Portions of this presentation were previously delivered at the Virginia Scholarly Communication Interest Group on June 28, 2019.
With special thanks to . . .

Ashley Miller, The Ohio State University

Rajiv Jhangiani, Kwantlen Polytechnic University
Expectations- Expected Outcomes

- Audience will be able to summarize reasons that ancillary / test bank sprints are helpful

- Audience will be able to "see themselves" / identify their potential role(s) in ancillary development

- Audience will gain [transferable] exposure/knowledge about different test bank development (@KState, @USF, @VT, @OhioState) methods
Why Ancillaries Matter

Because teaching faculty need them!
Local and National Impacts

Rebel Cummings-Sauls
Local
Faculty Experiences and Institutional Challenges

Writing Commons
Math
Chemistry
This book pushes the boundaries of a traditional textbook with its expansive content and interactivity. Currently crowdsourcing submissions via an academic, peer-review process.
Ancillaries included and proceeds from print sales used to create more.
Resource is not open, but professor made an abundant amount of ancillary content available.
Over 1,500 numbered exercises that range in difficulty; faculty created.
Features algorithms that create problem sets for students to practice.
Chemistry- OpenStax Instructor Only Resources and used stipend to create over 200 questions.
National
State, Consortia, and Networks

FLVC-FALSC
Orange Grove
OPEN FL
OTN
“I need more than a textbook” - said every faculty in FL this year!

https://falsc.libguides.com/openfl
Ancillary Materials Subgroup Report

Members:
Marilyn Billings, UMass Amherst Libraries  
Karen Bjork, Portland State University Library  
Shane Nackerud, University of Minnesota Libraries  
Maran Woitston, Minneapolis Community and Technical College

Open Textbook Network

What are ancillary materials and why are they important?

Ancillary materials include but are not limited to question banks, presentation slides, videos, videos of faculty explaining specific concepts, quizzes, tests, data files, assignments, solution manuals, and more. Many, if not most, commercial textbooks make ancillary, or supplementary, materials available to faculty when they choose to use a textbook for their course(s). They are a powerful incentive for faculty to continue to use commercial textbooks since they can save faculty a great deal of time and immediately provide lecture slides, notes, and assessments upon textbook adoption.
The Faculty Perspective

Anastasia “Katy” Cortes
Use of part-time/temporary teaching faculty has been growing:


- **Full-Time Tenured Faculty**
- **Full-Time Tenure-Track Faculty**
- **Full-Time Non-Tenure-Track Faculty**
- **Part-Time Faculty**
- **Graduate Student Employees**

Compiled by the American Association of University Professors Research Office, March 2017. Source: Integrated Postsecondary Education Data System.

Testbank Sprint Methodology

Anita Walz

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Open textbook “Fundamentals of Business” surpasses 100,000 downloads
Fundamentals of Business

*Fundamentals of Business* (2016) is an open educational resource designed for use in Virginia Tech's Pamplin College of Business course, MGT1104 Foundations of Business.

A new version of this book was released in 2019. View the new version at http://hdl.handle.net/10919/84848 for more details.

If you are an instructor reviewing, adopting, or implementing this book, please understand a little more about your use by contacting lib-ac-g@vt.edu.

Share and find ancillary resources for this book at OER Commons.

Questions? Comments? Did you adopt this book? Please contact the project manager at lib-ac-g@vt.edu.

This work is a project of University Libraries and the Pamplin College of Business.

1st edition (2016)
LOTS O’ EMAILS
Hello Anita,

I am part of a team looking for new texts for the Fall. Your book comes highly recommended.

Questions the team has:

1. Are there slide decks?
2. Can we customize the text?
3. How is text delivered to students?
4. Is there an LMS integration?
5. Is there a quiz bank?
6. Are there lecture notes?
7. Are there recommend in class activities?

Thanks for your quick reply
The Great Psychology Testbank Sprint

Well, we did it. Seventeen psychology faculty from six post-secondary institutions in British Columbia came together on July 18 & 19 and worked intensively for two days to create a testbank designed to accompany open textbooks for introductory psychology. As I have previously written about, the absence of ancillary materials (a testbank most of all) presents a significant challenge to instructors who wish to adopt an open textbook. Although some observers will turn their noses up at the thought of faculty not writing every single one of the questions on their exams, the reality is that many (overworked) instructors of large, multi-section survey courses do start working from the publisher-supplied testbank, writing, revising, and editing as necessary over time. The need for this crutch becomes even more pronounced for new faculty that do not have years of classroom and assessment experience to draw on, sessional faculty assigned to a course only

CC BY SA https://thatpsychprof.com/the-great-psychology-testbank-sprint/
GOALS:

- Develop a 500 question test bank
- Learn how to do this
- Help others learn to do this
- Have fun
Ingredients: 400-question test bank

- 2 grants
- + 9 business faculty
- + 3 guest speakers
- + 4 librarians
- + 1.5 days
- + a lot of food and logistics
- + 1 robot and 1 cat
- + editorial work afterwards
Incentive funding from the Inn at Virginia Tech

$$ used for event support, travel, lodging, food & honoraria
GREAT TEST BANK SPRINT: An Open Test Bank Sprint for Intro to Business
January 17-18, 2018
Virginia Tech, Blacksburg, VA

THURSDAY, January 17, 2019
10:30-11:30am Pick up parking passes & check in (Newman Library 2nd floor)
   “N4” on printable campus map: http://www.maps.vt.edu/PDF/main_campus_map.pdf
   GPS address: 560 Drillfield Drive, Blacksburg, VA 24061

11:00 [Optional] Library studios & spaces tour
11:30am Lunch opens (Newman Library, Room 207A)
12:00-1pm Welcome, orientation, introductions, and … paperwork
1-2pm First writing session
2-2:15 Break
2:15-3:30 Second writing session
3:30-3:45 Break
3:45-4:45 1st Peer Review Session
4:45-5:15pm Evaluation / Discussion / Wrap up
5:15 - 6pm Break / Check into Inn at Virginia Tech (901 Prices Fork Rd)
6pm Group dinner at Zeppolis - (810 University City Blvd, Blacksburg)

FRIDAY, January 18, 2019
7:30am Check out of Inn & Continental breakfast at Newman Library, Room 207A
8:00-9:00 Third writing session
9-9:15 Break
9:15-10:15 Fourth writing session
10:15-10:30 Break
### Thursday

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<tr>
<th>Session 1: Thurs 1-2pm</th>
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<tbody>
<tr>
<td>Table 1: Teamwork in Business</td>
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<td>Table 2: Foundations of Business</td>
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<td>Table 3: Economics in Business</td>
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### Friday Morning

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<tr>
<th>Session 3: Friday 8:45-10:30am</th>
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<tbody>
<tr>
<td>Table 1: Management and Leadership</td>
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<td>Table 2: Structuring Organizations</td>
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<td>Table 3: Entrepreneurship: Starting a Business</td>
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<td>Table 4: Personal Finances</td>
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### Friday Afternoon

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<th>Session 4: Friday 10:45-11:30am</th>
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<tbody>
<tr>
<td>Table 1: Marketing: Providing Value to Customers</td>
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<td>Table 2: Managing Human Resources</td>
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<td>Table 3: Operations Management</td>
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<td>Table 4: Union/Management Issues</td>
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### Peer Review Session 1 1:30-4:30pm

| Table 1: Teamwork in Business AND Economics in Business |   |   |   |
| Table 2: Foundations of Business AND Forms of Business Ownership |   |   |   |
| Table 3: Ethics and Social Responsibility AND Business in a Global Environment |   |   |   |

### Peer Review Session 2 4:45-5:30pm

| Table 1: Economics in Business AND Management and Leadership |   |   |   |
| Table 2: Structuring Organizations AND Entrepreneurship: Starting a Business |   |   |   |
| Table 3: Personal Finances AND Marketing Providing Value to Customers |   |   |   |
| Table 4: Operations Management AND Union/Management Issues |   |   |   |

### Final Peer Review Session 3:40-4:15pm

| Table 1: Pricing Strategy |   |   |   |
| Table 2: Accounting and Financial Information |   |   |   |
| Table 3: Motivating Employees |   |   |   |
| Table 3: Structuring Organizations |   |   |   |
| Table 4: Hospitality and Tourism |   |   |   |
| Table 5: Other chapters where review is needed: |   |   |   |
| - Business in a Global Environment |   |   |   |
| - Mgmt & Leadership |   |   |   |
| - Entrepreneurship |   |   |   |
| - Personal Finances |   |   |   |
| - Managing Human Resources |   |   |   |
| - Operations Management |   |   |   |
| - Motivating Employees |   |   |   |
Testbank Sprint question entry

Form description

Email address *

Valid email address

This form is collecting email addresses. Change settings

:::

Chapter / topic *

1. Teamwork in Business

2. The Foundations of Business

3. Economics and Business

4. Ethics and Social Responsibility
Giant spreadsheet!
License & approved uses

The test bank license shall be as follows:

- © with permission for each approved user to reproduce, modify, and redistribute questions and answers in the context of educational exams, quizzes, and assessments only.
- Exclusive of designated sample questions, the testbank and/or testbank questions are allowed to be shared among faculty adopting FundBus within the same institution in a secure electronic environment.

The copyright holders agree with one another that they will uphold the following with regard to what they do with their copyrights:

- Relicensing of the test bank will be used only in support of no cost open textbooks or open texts;
- Relicensing is not allowed for sell, monetization, or commercial use of portions or complete questions, answers, or their derivatives in exchange for money, goods, or services.
Testbank for Fundamentals of Business

ABOUT THE TESTBANK

INSTRUCTIONS FOR TESTBANK ACCESS
The testbank is available to any instructor who has adopted Fundamentals of Business in their course. Please complete all four steps below.

1. View and test the "sample" files in the left hand column to determine which format works best for you. Additional information about each format type is available below under FORMATS.
2. Indicate requested files by clicking on any of the testbank files on the left (marked "permission required") add a note and press submit to request access.
3. Email a copy of the course syllabus to openscience@vt.edu
4. Complete and submit the User Verification Process Form linked here. You will receive a copy of your request via email.

Requested files will be released via email when steps two through four have been completed and reviewed. Note that access approvals are processed only during regular
Content Camp Approach
Anastasia “Katy” Cortes
Content Camp was a 2 day event in Chicago:

- Sponsored by the Ohio State University, with a test bank “tool” hosted by Penn State University

- 4 teams of volunteer faculty in 2019: Spanish, Economics, Management, and History, but the overall project now includes 10 disciplines.

- Each discipline team tasked to generate ~1000 questions spread throughout disciplinary topics, independent of any textbook.
The “Tool”:

Screenshots used with permission of The Ohio State University.
The intent is to have a broad variety of test questions for a subject that can be used with any open source text.

Users can select and download questions for use in their courses, including in an LMS environment.
Each discipline team generated a list of the typical subjects covered in a course in their discipline. This example includes some of the subjects for a principles of Management course:
Each subject was further divided into the topics typically included in that subject. This example shows the topics included for the subject “What is Management?”

Questions were created for each topic.
Question entry page: the tool can accommodate many different types of questions.
After the questions are written, there is a review process to ensure quality and catch errors. Team members review each others’ questions:
The final result is a database of questions that users can select from—you can make an entire quiz or test by adding questions to a “cart” and downloading your selections.
Content Camp approach takeaways:

- A place to house the questions (“the Tool”) is very difficult to make well. We (faculty content writers) had a LOT of suggestions for improving it as we bumped into features and limitations while developing our questions. The suggestions came even as we acknowledged that the tool was already well set up...

- The initial meeting was very helpful for getting us all to know one another and develop a sense of accountability to the project, since after the Chicago meeting we only worked independently and met virtually.
What we learned, and other interesting topics...
Discussion
Thank you