

# OER Enabled Canvas Sample Course Shells – Equity for All!



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**@DrBSI**



# **Who has used OER for course materials?**

- **What course?**
- **Did you start from scratch to create the OER by yourself or with colleagues?**
- **If not, how did you come to that OER?**

**OER can be  
hard to find.**



[https://commons.wikimedia.org/wiki/File:Needle\\_in\\_haystack7.jpg](https://commons.wikimedia.org/wiki/File:Needle_in_haystack7.jpg)

**That's where  
we can help!**

# A Grassroots Project

## **Team: California Community Colleges + OpenStax**

- **Barbara Illowsky (then Chief Academic Affairs Officer for the CCC Online Education Initiative)**
- **CCC instructional designers**
  - **Cyrus Helf, WLAC**
  - **Helen Graves, OEI**
  - **Liezl Madrona, OEI**
- **Librarians**
  - **Nicole Woolley, SCC, OEI (project coordinator)**
  - **Antonio Lopez, SCC**
- **Faculty (OEI Design Rubric)**
- **OpenStax**



# A Grassroots Project

## **Project:**

**Create 30 sample course shells ~ 29 with embedded OER to make adoption simple for faculty + 1 “empty” shell**

**Note: the project made 11 shells for mathematics**

# A Grassroots Project

## **Location:**

**Canvas Commons ~**

**all 114 CCC plus several CSU use Canvas**

## **Equity:**

**Make it easy to adopt OER**









## **Professional Development:**


**Build in effective online teaching strategies**




# Canvas Commons

## Search: CCC OEI OER Math

  
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**Algebra**  
openstax™  
CALIFORNIA COMMUNITY COLLEGES  
ONLINE EDUCATION  
INITIATIVE


  
**CCC OEI: OpenStax Elementary Algebra**  

This sample course shell is produced by and aligned with the California Community Colleges Online Education Initiative

By: Barbara Illowsky

☆☆☆☆☆ DEC 28, 2017


  
**Algebra & Trigonometry**  
openstax™  
CALIFORNIA COMMUNITY COLLEGES  
ONLINE EDUCATION  
INITIATIVE

  
**CCC OEI: OpenStax Algebra & Trigonometry**  

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**Canvas Sample Course Shell**  

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**Pre-algebra**  
openstax™  
CALIFORNIA COMMUNITY COLLEGES  
ONLINE EDUCATION  
INITIATIVE


  
**CCC OEI: OpenStax Pre-algebra**  


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**Calculus**  
openstax™  
CALIFORNIA COMMUNITY COLLEGES  
ONLINE EDUCATION  
INITIATIVE

  
**CCC OEI: OpenStax Calculus 1**  




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**College Algebra**  
openstax™  
CALIFORNIA COMMUNITY COLLEGES  
ONLINE EDUCATION  
INITIATIVE

  
**CCC OEI: OpenStax College Algebra**  

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# ... and some more shells






**Calculus**

**CCC OEI: OpenStax Calculus 3**

This sample course shell is produced by and aligned with the California Community Colleges Online Education Initiative

**By:** Barbara Illowsky

☆☆☆☆☆ DEC 28, 2017






**Statistics**

**CCC OEI: OpenStax Statistics**

OER-enabled Canvas sample course shell This sample course shell is produced by and aligned with the

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**Calculus**

**CCC OEI: OpenStax Calculus 2**

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**By:** Barbara Illowsky




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**Statistics**

**CCC OEI: OpenStax Business Statistics**




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**Pre-calculus**

**CCC OEI: OpenStax Precalculus**

OER-enabled Canvas sample course shell This sample course shell is produced by and aligned with the



**Algebra**

**CCC OEI: OpenStax Intermediate Algebra**

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# **How to use view & use the shells**

- **Make a sandbox shell in your Canvas instance**
- **Find the shell you want from Canvas Commons**
- **Import that Canvas Commons into your sandbox**
- **NOTE: any imported shell will overwrite everything in your shell so start with an empty shell!!**
- **Edit away!**

# Simplified Homepage



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## Welcome to Math 110

*[INSTRUCTORS: Add your welcome message below.]*

Hello, students! Welcome to this course. I am so excited to work with you this term and assist you in achieving your educational goals. I truly look forward to our class and getting to know each of you. If you have a preferred name that is not on the official roster, please send it to me. You are welcome to call me "Barbara." If you are uncomfortable with that, then "Dr. Illowsky" is fine, too. One of the many reasons I love teaching this particular course is the real world applications we can share.

Please go through all the web pages to familiarize yourself with how we'll operate. You'll see that your textbook is FREE!!! (Are you smiling? I hope so!) Please contact me as soon as you have any challenges so that we can work together to meet your needs.

Click on the following to begin:





# Syllabus



## sample version

Meant to give you a starting point for your own creativity

### Course Description:

*[INSTRUCTORS: We have included the C-ID descriptor here as a place holder. As with all sections, feel free to keep this information, replace it with your local course description, or remove it.]*

The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; square and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life sciences, and education.

### Student Learning Outcomes:

*[INSTRUCTORS: We have included the C-ID outcomes here as a place holder. As with all sections, feel free to keep this information, replace it with your local Student Learning Outcomes, or remove it.]*

Upon successful completion of the course, students will be able to:

- Distinguish among different scales of measurement and their implications;
- Interpret data displayed in tables and graphically;
- Apply concepts of sample space and probability;
- Calculate measures of central tendency and variation for a given data set;
- Identify the standard methods of obtaining data and identify advantages and disadvantages of each;
- Calculate the mean and variance of a discrete distribution;
- Calculate probabilities using normal and student's t-distributions;
- Distinguish the difference between sample and population distributions and analyze the role played by the Central Limit Theorem;
- Construct and interpret confidence intervals;
- Determine and interpret levels of statistical significance including p-values;
- Interpret the output of a technology-based statistical analysis;
- Identify the basic concept of hypothesis testing including Type I and II errors;
- Formulate hypothesis tests involving samples from one and two populations;
- Select the appropriate technique for testing a hypothesis and interpret the result;
- Use linear regression and ANOVA analysis for estimation and inference, and interpret the associated statistics; and
- Use appropriate statistical techniques to analyze and interpret applications based on data from disciplines including business, social sciences, psychology, life science, health science, and education.

### Course Content:

*[INSTRUCTORS: Insert course content]*

- Summarizing data graphically and numerically;
- Descriptive statistics: measures of central tendency, variation, relative position, and levels/scales of measurement;
- Sample spaces and probability;


# Support for Faculty


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View Progress + Module


Landing Page			⌵	+	⚙
⋮	📄	Welcome to U.S. History (Chapters 1-16)	✓	⚙	▼
⋮	📄	U.S. History, Chapters 1-16 (Alternative Front Page)	✓	⚙	▼
INSTRUCTORS: Read This First!			⌵	+	⚙
⋮		Customization Support	⌵	⚙	▼
⋮	📄	How to Use This Sample Course Shell	✓	⚙	▼
⋮	📄	Do You Have Existing Course Content?	✓	⚙	▼
⋮	📄	One-Stop Resource Page	✓	⚙	▼
⋮	📄	Canvas Course Commons	✓	⚙	▼
⋮	📄	Interested in "Total Reading Time" Pills? & Other HTML Styles?	✓	⚙	▼
⋮	📄	Module Overview Sample	✓	⚙	▼
⋮		Textbook	✓	⚙	▼
⋮	📄	Textbook Info and Additional Resources	✓	⚙	▼
⋮	📄	Instructor Guide: Using the Question Banks	✓	⚙	▼
⋮		Other Helpful Resources	✓	⚙	▼
⋮	📄	How to Record Your Welcome Video	✓	⚙	▼
⋮	📄	Welcoming Students Before the Course Starts	✓	⚙	▼
⋮	📄	Chapter Readings and PowerPoint Guidance	✓	⚙	▼
⋮		Accessibility Support	✓	⚙	▼
⋮	📄	Accessibility Disclaimer to Faculty	✓	⚙	▼


# ... and more support for Faculty


  
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## One-Stop Resource Page

Total Reading Time1 minute38 seconds

The following resources serve as a guide to help you create a robust and engaging course:

### OEI

[About OEI](#) ⓘ : Learn more about the Online Education Initiative

[Online Course Design Standards](#) ⓘ : Learn more about the OEI Rubric

[California Course Identification \(C-ID\)](#) ⓘ : Learn more about transfer and articulation system for California's colleges

[CA Chancellor's Office](#) ⓘ : Learn more about the California Chancellor's Office projects and initiatives

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### Free, Customizable Instructional Resources

[Cool4Ed](#) ⓘ : California Open Online Library for Education

[OpenStax](#) ⓘ : Access our free college textbooks and low-cost learning materials

[OER Commons](#) ⓘ : Open Educational Resources Commons

[Merlot II](#) ⓘ : Multimedia Educations Resources for Online Teaching and Learning

### Creating Media Support

[Accessibility Support Self-Paced Course](#) ⓘ : Learn how to create accessible instructional materials for your students.

[3C Media Solutions](#) ⓘ : Captioning videos you created. Free captioning service for CCC faculty.

[Captioning Videos](#) ⓘ : Learn how to caption your instructional videos.

# Support for Students

⋮	📄 Captioning All Videos	✓ ⚙️ ▼
<hr/>		
⋮ ▼	Getting Started (SAMPLE)	🔒 + ⚙️ ▼
⋮	Welcome!	🔒 ⚙️ ▼
⋮	📄 About Your Instructor	✓ ⚙️ ▼
⋮	📄 Being Successful in this Course	✓ ⚙️ ▼
⋮	📄 Update Your Canvas Profile 0 pts	✓ ⚙️ ▼
⋮	Textbook	✓ ⚙️ ▼
⋮	📄 Textbook & Additional Resources	✓ ⚙️ ▼
⋮	Student Support & Resources	✓ ⚙️ ▼
⋮	📄 Getting Started with Canvas	✓ ⚙️ ▼
⋮	📄 Canvas Quick Links	✓ ⚙️ ▼
⋮	📄 Student Support Services	✓ ⚙️ ▼
⋮	📄 Online Learning Resources	✓ ⚙️ ▼
⋮	📄 Tech Services & Computer Resources	✓ ⚙️ ▼
<hr/>		
⋮ ▼	Chapter 1	✓ + ⚙️ ▼
⋮	Chapter Readings	✓ ⚙️ ▼
⋮	🔗 1 Introduction	✓ ⚙️ ▼
⋮	🔗 1.1 The Americas	✓ ⚙️ ▼

# Embedded textbook & PPTs

Chapter 1		✓	+	⚙
Chapter Readings		✓	⚙	▼
1 Introduction	✓	✓	⚙	▼
1.1 The Americas	✓	✓	⚙	▼
1.2 Europe on the Brink of Change	✓	✓	⚙	▼
1.3 West Africa and the Role of Slavery	✓	✓	⚙	▼
Additional Resources		⊘	⚙	▼
OpenStax_History_CH01.pptx	✓	✓	⚙	▼

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Chapter 2		✓	+	⚙
Chapter Readings		✓	⚙	▼
2 Introduction	✓	✓	⚙	▼
2.1 Portuguese Exploration and Spanish Conquest	✓	✓	⚙	▼
2.2 Religious Upheavals in the Developing Atlantic World	✓	✓	⚙	▼
2.3 Challenges to Spain's Supremacy	✓	✓	⚙	▼
2.4 New Worlds in the Americas: Labor, Commerce, and the Columbian Exchange	✓	✓	⚙	▼
Additional Resources		⊘	⚙	▼
OpenStax_History_CH02.pptx	✓	✓	⚙	▼

... ta da! ...



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2.6 Skewness and the Mean, Median, and Mode

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Introductory Statistics

Book by: OpenStax College

f t g+ in

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A newer version of this is now available.

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Get This Book!

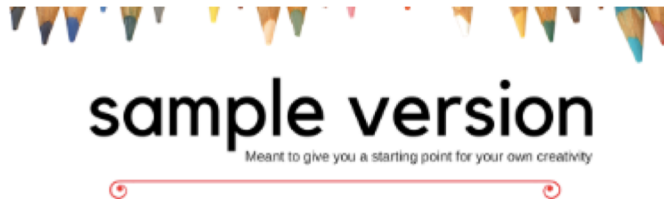
Page by: OpenStax College

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# CC BY → adaptable



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## Course Syllabus

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### Math 15, Elementary Statistics

### Section 8338, Summer 2018 Course Syllabus

This syllabus is also available as a pdf document: [Syllabus15Summer2018.pdf](#)

### Course Description

Exploration of concepts in statistics, descriptive statistics, probability theory, Central Limit Theorem, estimation of population parameters from a sample, hypothesis testing, correlation and linear regression, introduction to analysis of variance, and computer simulations.

### Student Learning Outcomes

The Student Learning Outcomes can be found at this URL:

[https://portal.santarosa.edu/SRWeb/SR\\_CourseOutlines.aspx?Semester=20177&CVID=37479](https://portal.santarosa.edu/SRWeb/SR_CourseOutlines.aspx?Semester=20177&CVID=37479)

### Class Meetings

The class will meet MTWTh, 10:00 - 12:50 PM in Shuhaw 1713.

### Instructor Contact

< October 2018 >						
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3
4	5	6	7	8	9	10

Assignments are weighted by group:

Group	Weight
Assignments	0%
Homework/Quizzes/InClass	14%
Excell Labs	15.5%
Exams	70.5%
Total	100%

# Colleagues' adaptations

- **PPts**
- **Embed MyOpenMath homework system**
- **Test banks**
- **Customizing shells**
- **College customization**

# An “empty” shell for YOU!



Use the shell with any  
textbook you want....  
OER or not!

# Next steps

- **Upload PPTs**
- **Add videos**
- **Test banks**
- **OER Commons hub for collaboration**

# **Next session ~ CCC ZTC grant**

- **Full cc mathematics pathway, starting with Elem. Algebra and going through Differential Eq's**
- **Most open textbooks: OpenStax**
- **MyOpenMath for hw system**
- **Online support**





*For online, hybrid, f2f  
classes*

# Course Shells



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# To learn more...



<https://www.oecconsortium.org/>



<https://www.cccoer.org/>



<http://cvc.edu/faculty-resources/open-educational-resources/>

*Thank you!*

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