# Open Educational Resources: From Pilot to Movement


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## Tompkins Cortland CC, NY

*Prepared for NEMATYC 2018 Conference*

# Kaleidoscope Grant

Spring 2011 – Implementation for Fall 2011

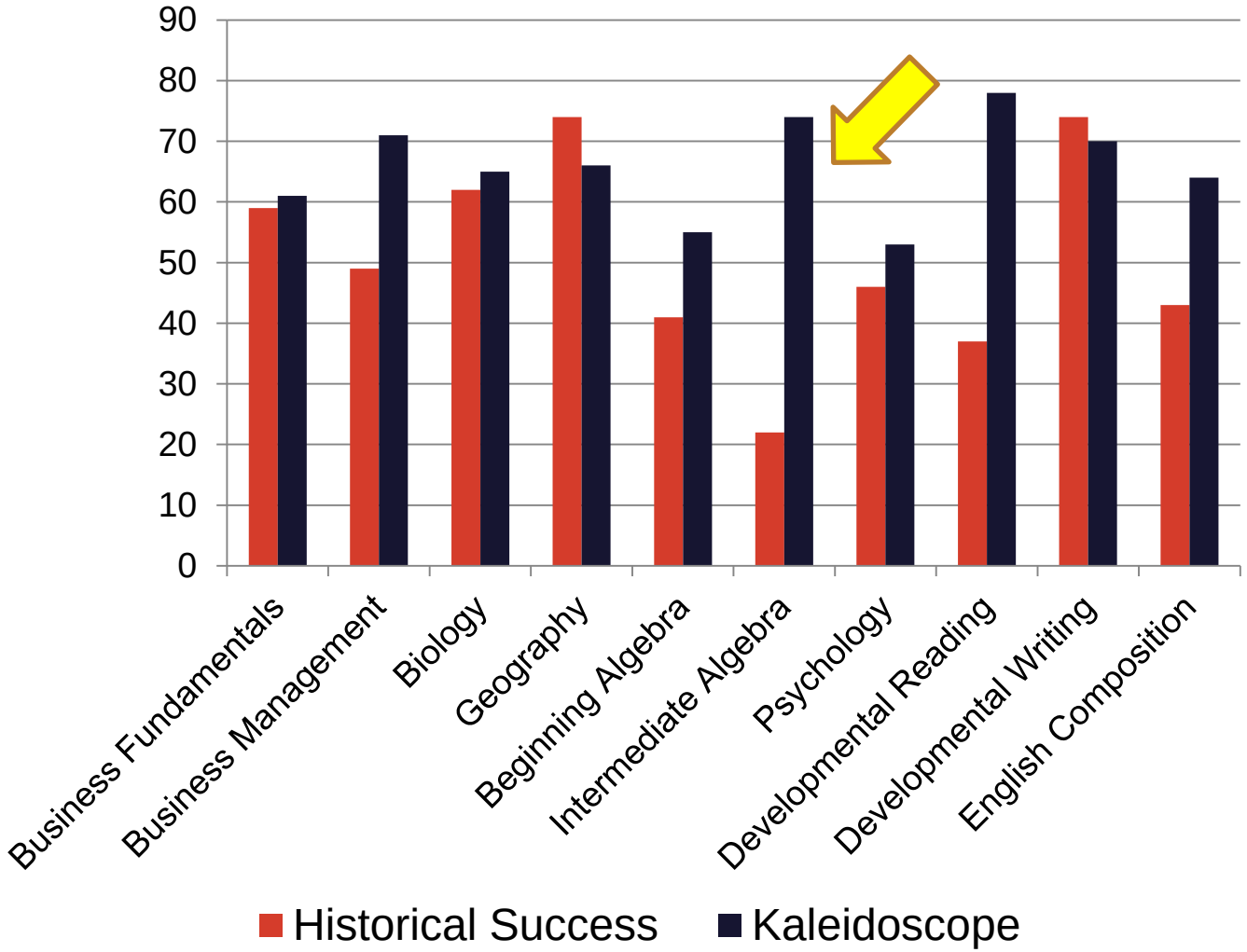
Project goals: Collaborate

Save $50/student/semester

Use already existing material  CC licensed

Increase success and retention by at least 5%

Access 100,000 students by the end of the first year


90
80
70
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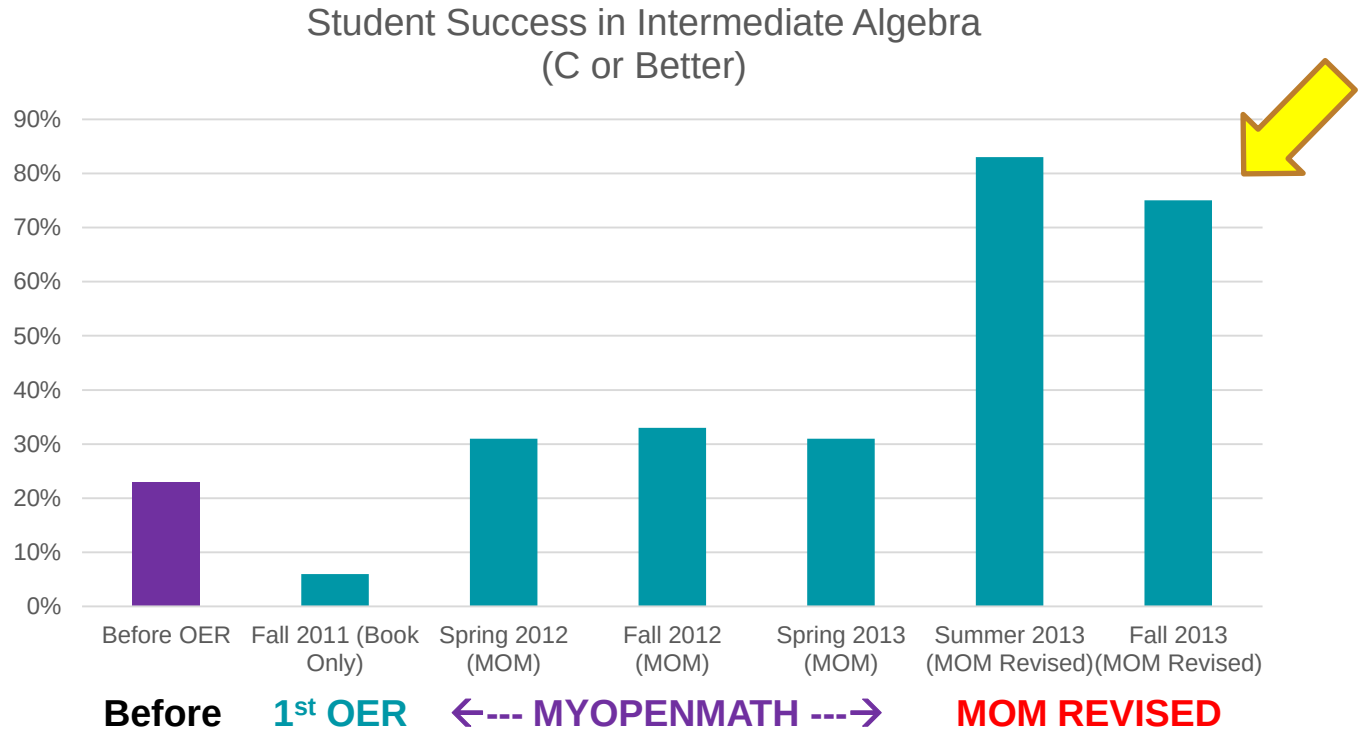
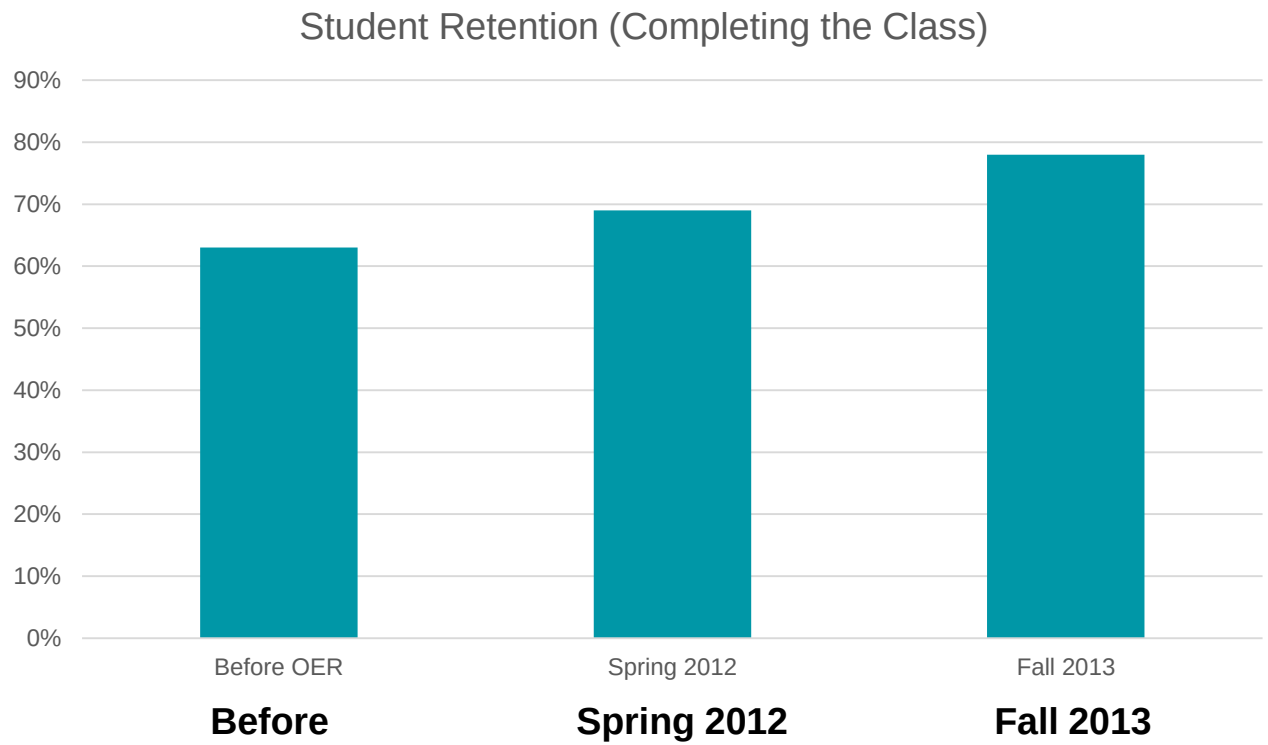
Business Fundamentals
Business Management
Biology
Geography
Beginning Algebra
Intermediate Algebra
Psychology
Developmental Reading
Developmental Writing
English Composition
Historical Success
Kaleidoscope

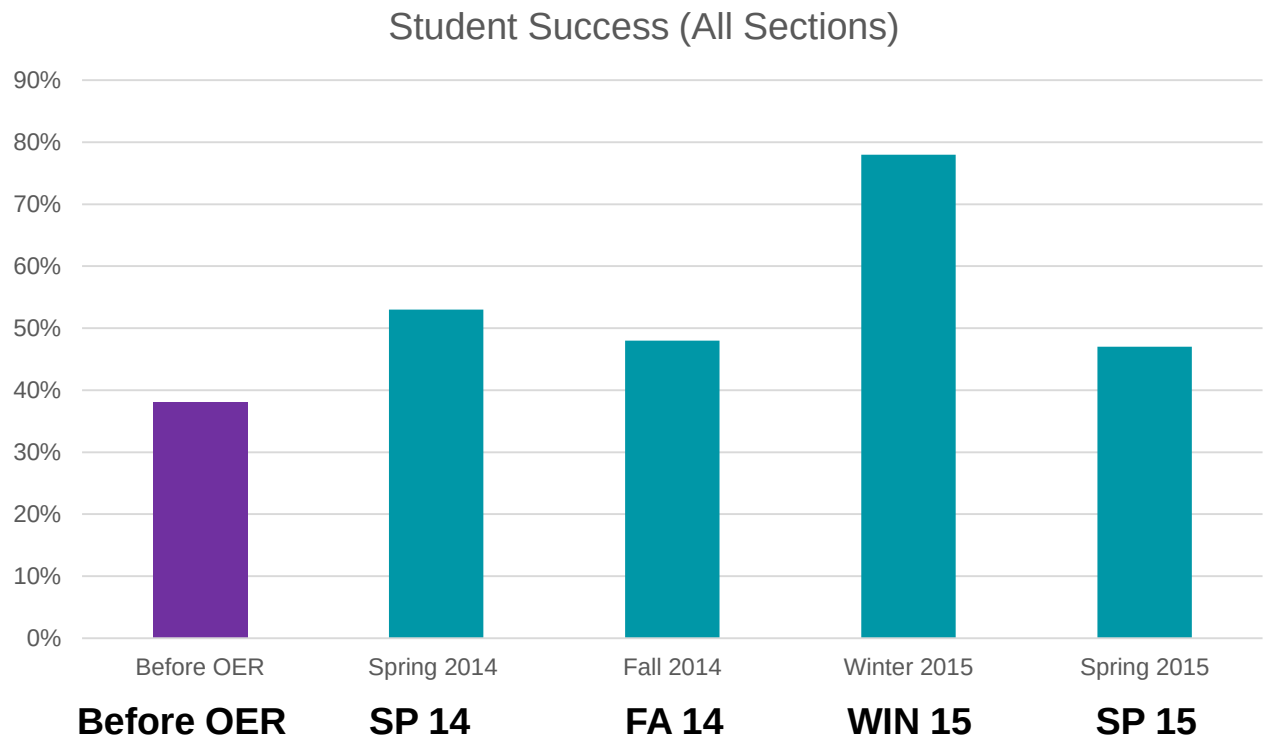
# Student Success  (Sophia's Sections Only)



# Student Retention (Sophia's Sections Only)



# Student Success - All Sections



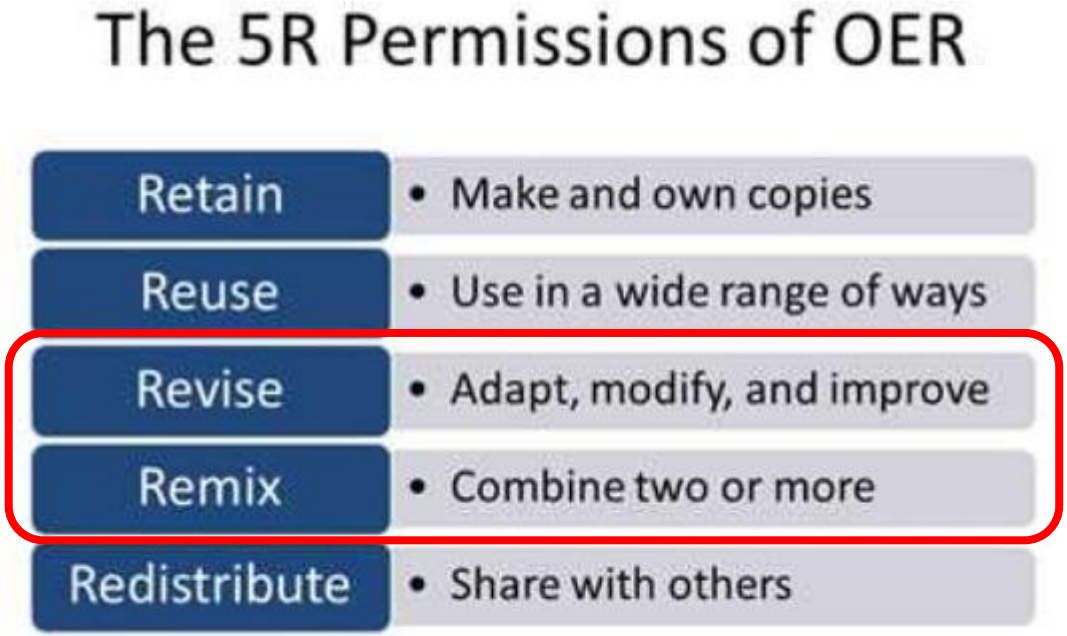
# How Did This Happen?

Networking

Training

Revise/Remix

Recycle!!!

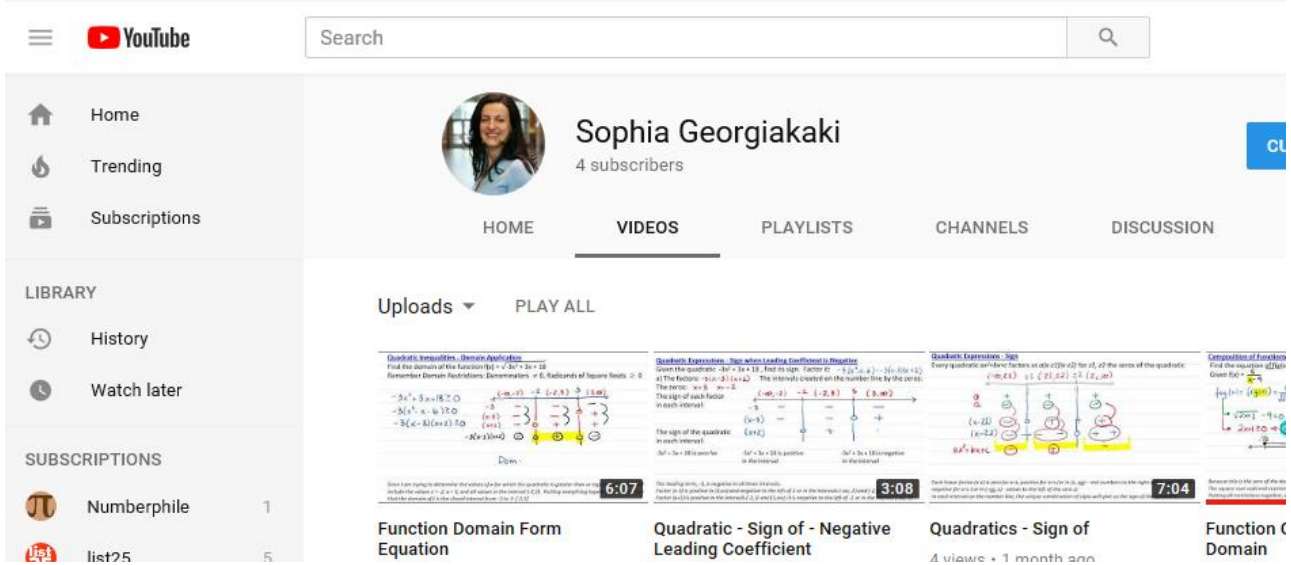


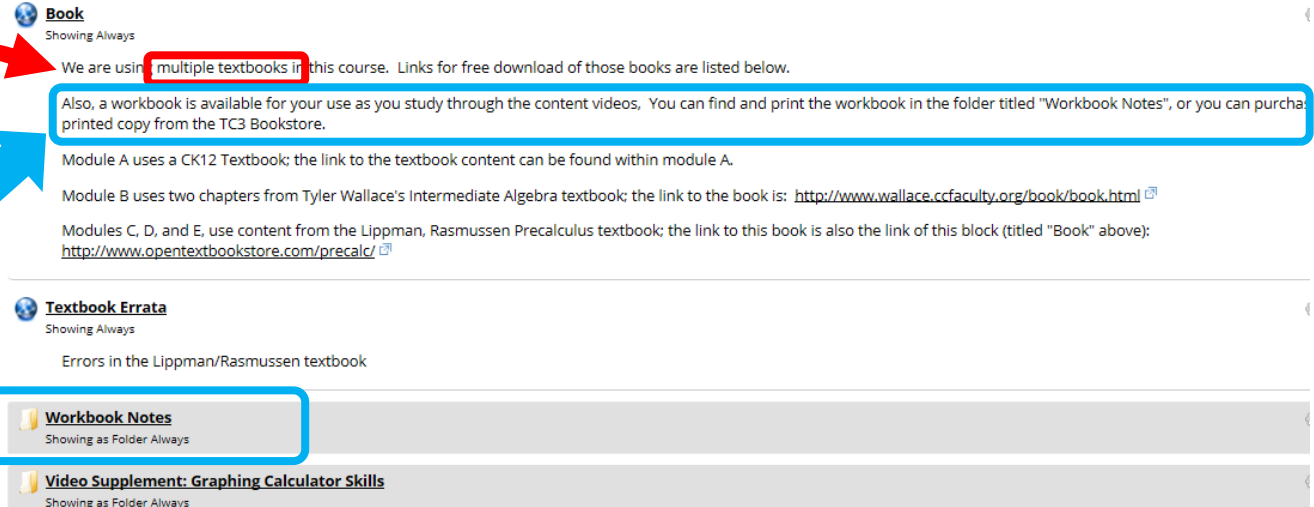
# Tools

YouTube Channel

Multiple Books

Guided Notes



**2.01. Functions**
Showing Collapsed Always until Always

**2.02. Functions and Function Notation (Lippman 1.1)**
Showing Expanded Always until Always

**2.03. Domain and Range (Lippman 1.2)**
Showing Expanded Always until Always

**2.04. Rates of Change and Behavior of Graphs (Lippman 1.3)**
Showing Expanded Always until Always

**2.05. Transformation of Functions (Lippman 1.5)**
Showing Expanded Always until Always

**2.06. Algebra of Functions**
Showing Expanded Always until Always

**2.07. More on Composition of Functions (Lippman 1.4)**
Showing Expanded Always until Always

**Toolkit Reference**
Showing until: Always

**Test 2**
Past Due Date of Thu 9/14/17, 11:59 pm. Showing as Review.
*This assessment is in review mode - no scores will be saved*

Test for Unit 2: Functions. This is a timed test (2.5 hours) with a single attempt per question.

## 2.03. Domain and Range (Lippman 1.2)

Showing Expanded Always until Always

Add An Item...

### Domain and Range (Lippman Section 1.2)

Showing until: Always

**Important Topics:**

- Definition of domain
- Definition of range
- Inequalities
- Interval notation
- Set builder notation
- Domain and Range from graphs
- Domain and Range of toolkit ("parent") functions

### P.2.3.A. Video Lessons

Showing until: Always

1. Domain and Range [+]
2. Interval & Set-Builder Notation [+]
3. Toolkit / Parent Functions & Domains [+] (only 6 - see textbook for all 9)
4. Domain and Range from Equation - Denominators and/or Square Roots [+]

### Hwk 2.3

Past Due Date of Thu 9/14/17, 11:59 pm. Showing as Review.

*This assessment is in review mode - no scores will be saved*

Domain and Range

## 2.07. More on Composition of Functions (Lippman 1.4)

Showing Expanded Always until Always

Add An Item...

### Composition of Functions (Lippman Section 1.4)

Showing until: Always

**Important Topics:**

- Definition of Composition of functions
- Compositions using: Words, Tables, Graphs & Equations

### P.2.7.A. Video Lessons C.4

Showing until: Always

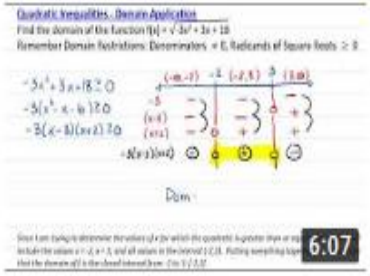
1. Composite Functions [+]
2. Use a Table: Find Values [+]
3. Use Graphs: Find Values [+]
4. Write a function as the composition of two functions [+]
5. Function Composition and Domain [+]

### Hwk 2.7

Past Due Date of Thu 9/14/17, 11:59 pm. Showing as Review.

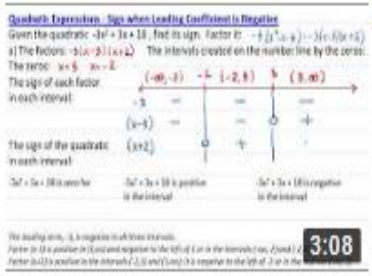
*This assessment is in review mode - no scores will be saved*

Composition of Functions



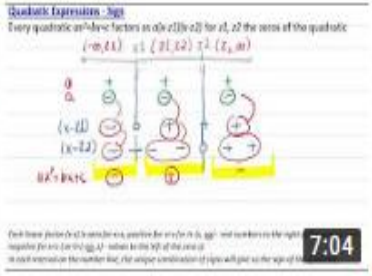

Function Domain Form Equation

6 views • 1 month ago




Quadratic - Sign of - Negative Leading Coefficient

3 views • 1 month ago

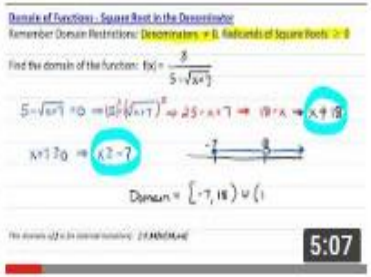



Quadratics - Sign of

4 views • 1 month ago

Function Composition and Domain

8 views • 1 month ago




Function Domain with Square Root in the Denominator

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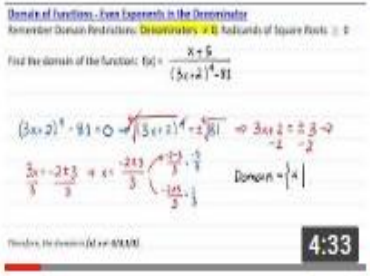
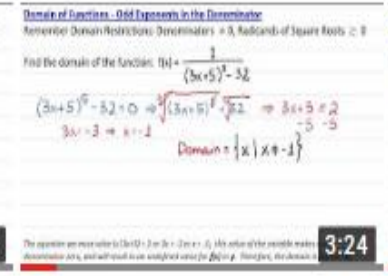


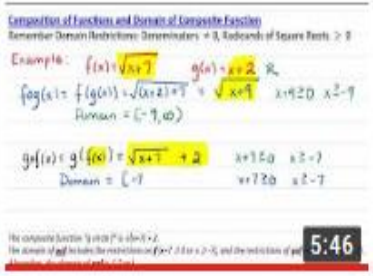

Function Domain with Denominators

7 views • 1 month ago




Domain of Functions with Denominator - Odd

13 views • 1 month ago

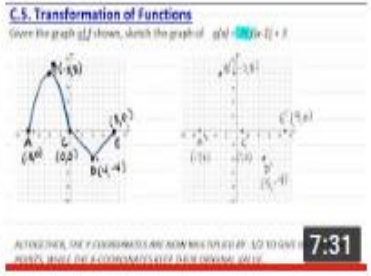



Function Composition and Domain Simple

69 views • 2 months ago

Domain of a Function - Simple Denominator or

19 views • 2 months ago




Graph Transformations

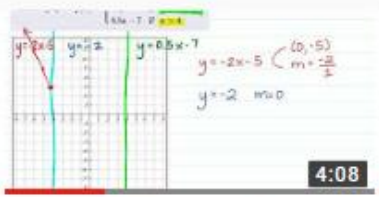
9 views • 3 months ago

**Composition of Functions 2**

12 views • 8 months ago

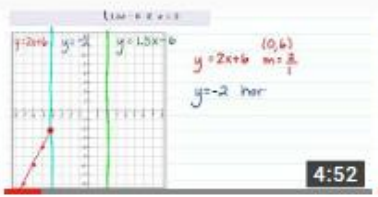
**Composition of Functions**

14 views • 8 months ago



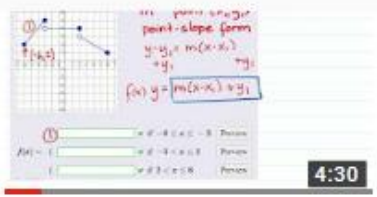

**Piecewise Functions: Graph**

11 views • 8 months ago



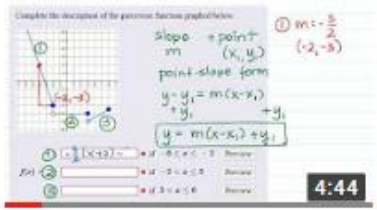

**Piecewise Functions: Graph**

16 views • 8 months ago



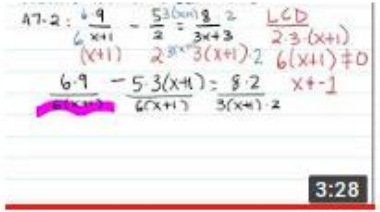

**Piecewise Functions: Equation from graph Example**

13 views • 8 months ago



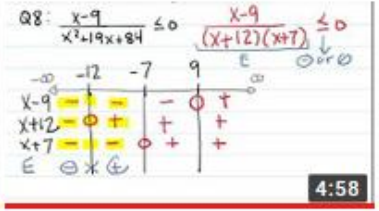

**Piecewise Functions - Equation from graph**

18 views • 8 months ago



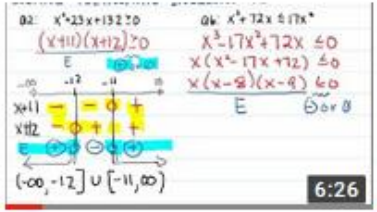

**Solve Rational Equation**

5 views • 9 months ago



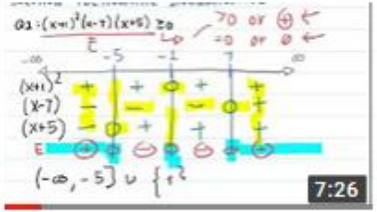

**Rational Inequality with Sign Table**

49 views • 9 months ago



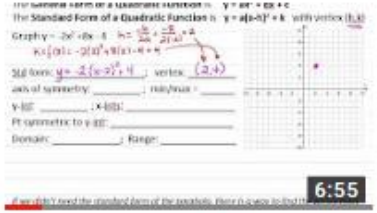

**Polynomial Inequalities Using the Sign Table**

70 views • 9 months ago




**Polynomial Inequalities**

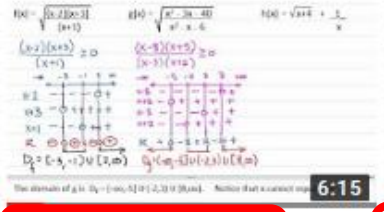
6 views • 9 months ago



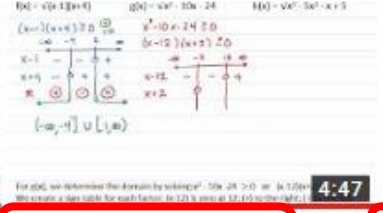

**Quadratic Graph and Standard Form**

**Equations Quadratic in Form**

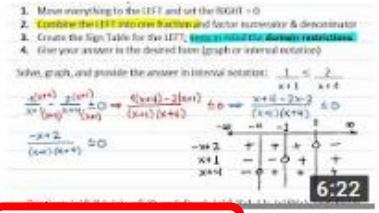
81 views • 9 months ago




**Domain of Function with Rational Radicand**




**Domain of Function with Polynomial Radicand**




**Rational Inequalities with Sign Table - Lesson Seven**

Find the domain of

$f(x) = \sqrt{(x-1)(x+4)}$

$g(x) = \sqrt{x^2 - 10x - 24}$

$h(x) = \sqrt{x^3 - 5x^2 - x + 5}$

$f(x) = \sqrt{\dfrac{(x-2)(x+3)}{(x+1)}}$

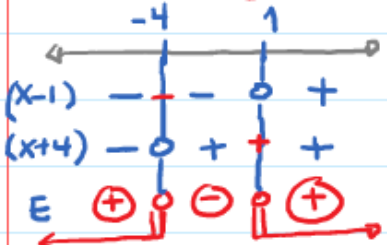
$g(x) = \sqrt{\dfrac{x^2 - 3x - 40}{x^2 - x - 6}}$

$h(x) = \sqrt{x+4} + \dfrac{1}{x}$

Find the domain of ★★

$f(x) = \sqrt{(x-1)(x+4)}$

$(x-1)(x+4) \geq 0$ ⊕ =0

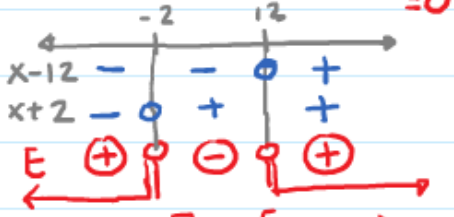



$(-\infty, -4] \cup [1, \infty)$

$g(x) = \sqrt{x^2 - 10x - 24}$

$x^2 - 10x - 24 \geq 0$

$(x-12)(x+2) \geq 0$ ⊕ or =0

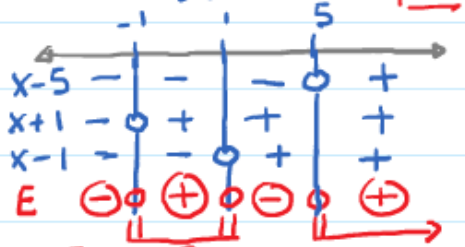



$(-\infty, -2] \cup [12, \infty)$

$h(x) = \sqrt{x^3 - 5x^2 - x + 5}$

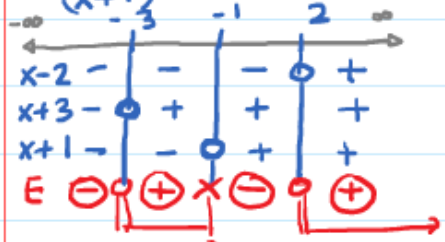
$x^3 - 5x^2 - x + 5 \geq 0$

$(x-5)(x+1)(x-1) \geq 0$



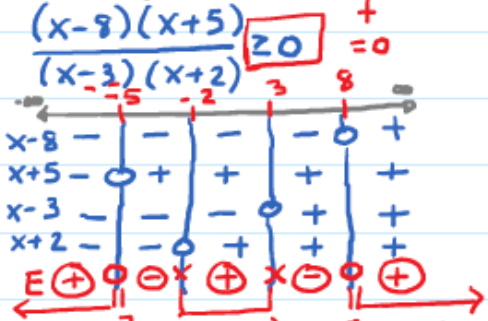

$[-1, 1] \cup [5, \infty)$

$f(x) = \sqrt{\dfrac{(x-2)(x+3)}{(x+1)}}$

$\dfrac{(x-2)(x+3)}{(x+1)} \geq 0$ ⊕ =0

$[-3, -1) \cup [2, \infty)$

$g(x) = \sqrt{\dfrac{x^2 - 3x - 40}{x^2 - x - 6}}$

$\dfrac{(x-8)(x+5)}{(x-3)(x+2)} \geq 0$ + =0




$(-\infty, -5] \cup (-2, 3) \cup [8, \infty)$

$h(x) = \sqrt{x+4} + \dfrac{1}{x}$

$x \neq 0$

$x + 4 \geq 0 \Rightarrow x \geq -4$

$[-4, 0) \cup (0, \infty)$

| | Order | Description | ID | Preview | Type | Points |
|---|---|---|---|---|---|---|
| ☐ | Q1 | Product of two rational functions $f(x) = \frac{(x+a)(x+b)}{(x+b)(x+c)}, g(x) = \frac{(x+c)(x+d)}{(x+a)(x+e)}$ (copy by Sophia Georgiakaki) (copy by Sophia Georgiakaki) | 19935 | Preview | multipart | 1 |
| ☐ | Q2 | Product of two rational functions $f(x) = \frac{(x+a)(x+b)}{(x+b)(x+c)}, g(x) = \frac{(x+c)(x+d)}{(x+a)(x+e)}$ (copy by Sophia Georgiakaki) | 19724 | Preview | multipart | 1 |
| ☐ | Q3 | Find the domain of product of two rational functions (local for Sophia Georgiakaki) | 149596 | Preview | number | 1 |
| ☐ | Q4 | Quotient of Rational Functions and Domain $\frac{(ax+b)(x+c)}{(x+c)(ax+f)} \div \frac{(ax+b)(x+d)}{(x+d)(x+e)}$; uses function notation (local for Sophia Georgiakaki) | 149598 | Preview | multipart | 1 |
| ☐ | Q5 | Find the domain of quotient of two rational functions (local for Sophia Georgiakaki) | 149597 | Preview | number | 1 |
| ☐ | Q6 | Add rational functions - find domain of the form $\frac{2x}{2x+a} + \frac{cx+a}{(2x+a)(x+b)}$. Simplifies to $\frac{x+e}{x+f}$ (copy by Sophia Georgiakaki) | 149591 | Preview | multipart | 1 |
| ☐ | Q7 | Difference of rational functions with domain $\frac{x+d}{x+a} - \frac{ex+f}{x^2+mx+l}$ reduces to $\frac{x+c}{x+b}$ (copy by Sophia Georgiakaki) | 19933 | Preview | multipart | 1 |
| ☐ | Q8 | Difference of rational functions with domain $\frac{x+d}{x+a} - \frac{ex+f}{x^2+mx+l}$ reduces to $\frac{x+c}{x+b}$ (copy by Sophia Georgiakaki) (copy by Sophia Georgiakaki) | 19936 | Preview | multipart | 1 |
| ☐ | Q9 | Given $f(x) = \frac{a}{x-b}$ and $g(x) = \sqrt{2x+c}$, find the domain of $f(g(x))$ (video) (copy by Sophia Georgiakaki) | 124655 | Preview | calcinterval | 1 |
| ☐ | Q10 | Given two rational functions, find their composition (ur_fn_2_10.pg) [MP-122] (video) | 15930 | Preview | multipart | 1 |
| ☐ | Q11 | Given two rational functions, find their composition | 89982 | Preview | multipart | 1 |
| ☐ | Q12 | Domain of composition of $f(x) = \frac{1}{x-b}$ and $g(x) = \frac{c}{x-a}$, integer discontinuities (local for Sophia Georgiakaki) | 149599 | Preview | calcinterval | 1 |
| ☐ | Q13 | domain of the composition of two rational functions | 62377 | Preview | multipart | 1 |
| ☐ | Q14 | Given two rational functions, find the domain of their composition (copy by Sophia Georgiakaki) | 124657 | Preview | calcinterval | 1 |
| ☐ | Q15 | Algebra problem: decomposition of functions (srw2_8_48.pg) (copy by Mike Pepe)[MP-122] (video) | 15925 | Preview | multipart | 1 |

| | | | | | | |
|---|---|---|---|---|---|---|
| ☐ | Q10 | Write equation given intercepts and vert asymptotes (video) | | 15838 | Preview | numfunc 1 |
| ☐ | Q11 | Match equation types with graphs (video) | | 15839 | Preview | matching 1 |
| ☐ | Q12 | Write equation for rational function graphed (video) | | 15840 | Preview | numfunc 1 |
| ☐ | Q13 | Write equation for rational function graphed; squared VA and x-intercept (video) | | 16238 | Preview | numfunc 1 |
| ☐ | Q14 | Product of two rational functions $f(x)=\frac{(x+a)(x+b)}{(x+b)(x+c)}, g(x)=\frac{(x+c)(x+d)}{(x+a)(x+e)}$ (copy by Sophia Georgiakaki) (copy by Sophia Georgiakaki) | | 19935 | Preview | multipart 1 |
| ☐ | Q15 | Quotient of Rational Functions and Domain $\frac{(ax+b)(x+c)}{(x+c)(ax+f)} \div \frac{(ax+b)(x+d)}{(x+d)(x+e)}$; uses function notation (local for Sophia Georgiakaki) | | 149598 | Preview | multipart 1 |
| ☐ | Q16 | Difference of rational functions with domain $\frac{x+d}{x+a}-\frac{ex+f}{x^2+mx+l}$ reduces to $\frac{x+c}{x+b}$ (copy by Sophia Georgiakaki) | | 19933 | Preview | multipart 1 |
| ☐ | Q17 | Domain of composition of $f(x)=\frac{1}{x-b}$ and $g(x)=\frac{c}{x-a}$, integer discontinuities (local for Sophia Georgiakaki) | | 149599 | Preview | calcinterval 1 |
| ☐ | Q18 | Given two rational functions, find the domain of their composition (copy by Sophia Georgiakaki) | | 124657 | Preview | calcinterval 1 |
| ☐ | Q19 | Solve rational inequality $\frac{x+a}{x+b} < c$ or > (video) | | 48792 | Preview | calcinterval 1 |
| ☐ | Q20 | Solve a Rational inequality of the form $\frac{x^2-(a+b)x+ab}{(x-c)^2}$ | | 67209 | Preview | calcinterval 1 |
| ☐ | Q21 | Solving $\frac{(x-b)^2}{x^2+dx+e} > 0$ w/Interval Notation (copy by Sophia Georgiakaki) | | 91728 | Preview | calcinterval 1 |
| ☐ | Q22 | Find the domain of $f(x)=\sqrt{\frac{x}{x+d}}$ w/Interval Notation (copy by Sophia Georgiakaki) (copy by Sophia Georgiakaki) | | 122050 | Preview | calcinterval 1 |
| ☐ | Q23 | Find the domain of $f(x)=\sqrt{\frac{x^2+bx+c}{x^2+dx+e}}$ w/Interval Notation (copy by Sophia Georgiakaki) (copy by Sophia Georgiakaki) | | 122020 | Preview | calcinterval 1 |
| ☐ | Q24 | time to complete job working together; paint [Edit by JR to include equation, randomize names] | | 3123 | Preview | multipart 1 |
| ☐ | Q25 | time to complete job working against; fill a pool (local for James Sousa) | | 14332 | Preview | calculated 1 |

# Student Questions Incorporated in Content

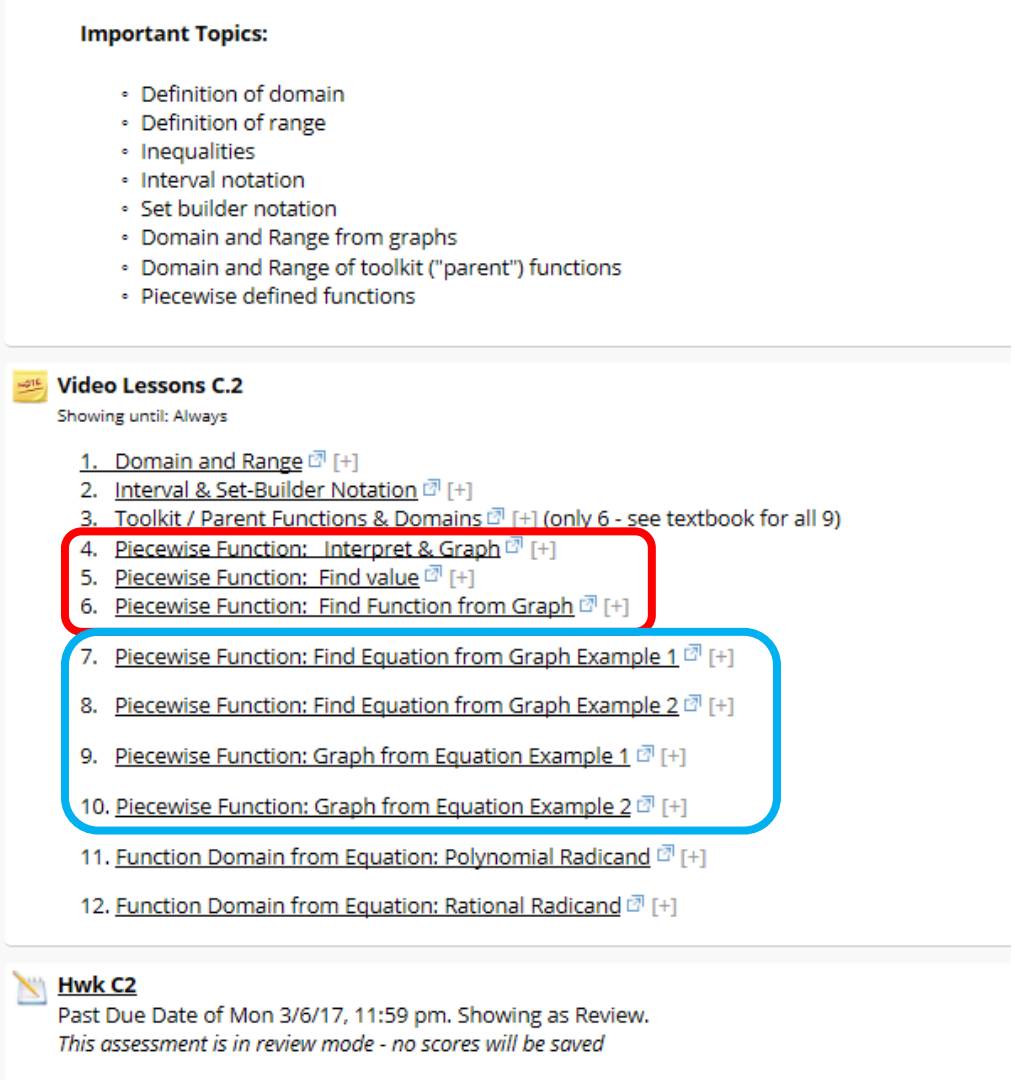
Questions in Assessment - Hwk C2

| Order | Description | ID | Preview | Type | Poin |
|---|---|---|---|---|---|
| Q1 | Find the domain of a graphed semi-ellipse [GL][6183] (local for James Sousa) | 13899 | Preview | interval | 1 |
| Q2 | find domain and range from graph (local for James Sousa) | 13898 | Preview | multipart | 1 |
| Q3 | Evaluate piecewise function. College Algebra by Larson and Hostetler (lh2-2_35.pg) (video help) | 15794 | Preview | multipart | 1 |
| Q4 | Write domains for piecewise function, constant pieces (video help) | 15793 | Preview | multipart | 1 |
| Q5 | Write formula for piecewise function, linear and constant pieces (added preview buttons) (video help) | 15792 | Preview | multipart | 1 |
| Q6 | draw piecewise function one linear, two constant (video help) (twopoint) | 32738 | Preview | draw | 1 |
| Q7 | draw piecewise function two linear, one constant (video help) (twopoint) | 32883 | Preview | draw | 1 |
| Q8 | draw piecewise function two linear (twopoint) (Lumen) | 93014 | Preview | multipart | 1 |

# Solution:

Add / Customize
the Course Content!

Add Notes Too!



**Important Topics:**

- Definition of domain
- Definition of range
- Inequalities
- Interval notation
- Set builder notation
- Domain and Range from graphs
- Domain and Range of toolkit ("parent") functions
- Piecewise defined functions

**Video Lessons C.2**

Showing until: Always

1. Domain and Range [+]
2. Interval & Set-Builder Notation [+]
3. Toolkit / Parent Functions & Domains [+] (only 6 - see textbook for all 9)
4. Piecewise Function: Interpret & Graph [+]
5. Piecewise Function: Find value [+]
6. Piecewise Function: Find Function from Graph [+]
7. Piecewise Function: Find Equation from Graph Example 1 [+]
8. Piecewise Function: Find Equation from Graph Example 2 [+]
9. Piecewise Function: Graph from Equation Example 1 [+]
10. Piecewise Function: Graph from Equation Example 2 [+]
11. Function Domain from Equation: Polynomial Radicand [+]
12. Function Domain from Equation: Rational Radicand [+]

**Hwk C2**

Past Due Date of Mon 3/6/17, 11:59 pm. Showing as Review.

*This assessment is in review mode - no scores will be saved*

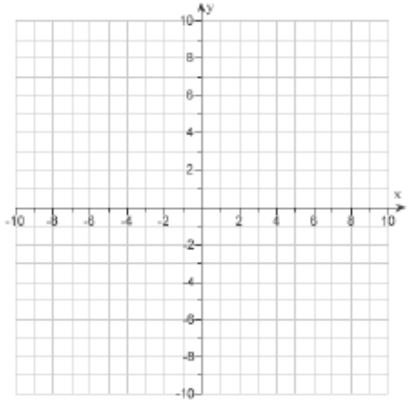
**Piecewise Function** is a function in which the formula used depends upon the part of the domain the input lies in. We write:

$$f(x) = \begin{cases} \text{Exp1} & \text{Domain for Exp1} \\ \text{Exp2} & \text{Domain for Exp2} \\ \text{Exp3} & \text{Domain for Exp3} \end{cases}$$

Graph $g(x) = \begin{cases} -x - 2, & \text{for } x < 1 \\ 2, & \text{for } x \geq 1 \end{cases}$

Find Domain: _____

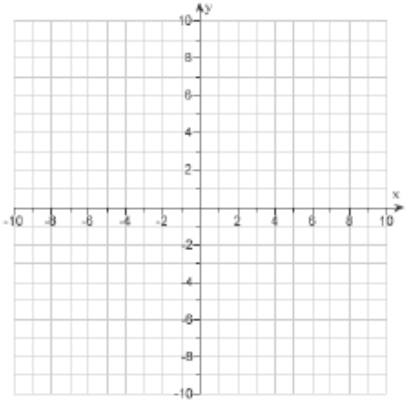
Range: _____



Graph $f(x) = \begin{cases} 3, & \text{for } x \leq 0 \\ 1 - x^2, & \text{for } 0 < x \leq 2 \\ 2x - 4, & \text{for } x > 2 \end{cases}$

Domain: _____

Range: _____



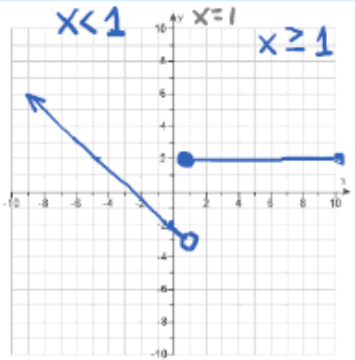
**Piecewise Function** is a function in which the formula used depends upon the part of the domain the input lies in. We write:

$$f(x) = \begin{cases} \text{Exp1} & \text{Domain for Exp1} \\ \text{Exp2} & \text{Domain for Exp2} \\ \text{Exp3} & \text{Domain for Exp3} \end{cases}$$

Graph $g(x) = \begin{cases} -x - 2, & \text{for } x < 1 \\ 2, & \text{for } x \geq 1 \end{cases}$

Find Domain: $(-\infty, \infty)$

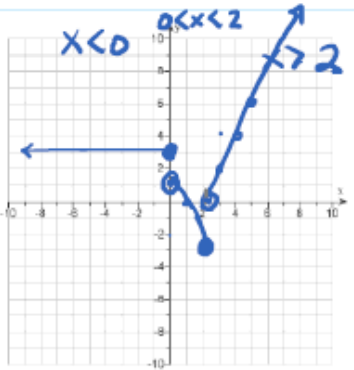
Range: $(-3, \infty)$




Graph $f(x) = \begin{cases} 3, & \text{for } x \leq 0 \\ 1 - x^2, & \text{for } 0 < x < 2 \\ 2x - 4, & \text{for } x > 2 \end{cases}$

Domain: $(-\infty, \infty)$

Range: $[-3, \infty)$



# Mathematics Growth in Tompkins Cortland

- From 1 section to ALL sections of Intermediate Algebra after 6 semesters (including Summer 2013)
- Spring ‘14: Intermediate Algebra OER in all sections
  - 272 Students
  - $23,400 - $35,600 in Book Cost Savings
  - Withdrawals not related to financial reasons

TOMPKINS CORTLAND COMMUNITY COLLEGE

# Mathematics Growth in TCCC

- 3497 students have used MyOpenMath or Lumen OHM at Tompkins Cortland CC for math only (Fall ‘12 – Fall ‘17)
- $420K - $520K in book cost savings MATH ONLY
- From one section of Intermediate Algebra, we are now at
  - All Sections of **College Algebra**
  - All Sections of **Pre-calculus**
  - All Sections of **Statistics**
  - One Section of **Pre-Algebra**
  - All Sections of **Liberal Arts Math** (2 different courses)
  - Of course: **Intermediate Algebra**

# Why Does It Work So Well?

Five R's: we **OWN** our courses and can customize our offerings

Math **COMMUNITY** has increased very quickly → a variety of resources are available right now

Our students have **ACCESS** to our courses on day one (content and homework)

Our **SUCCESS** rates have increased helping in instructor buy-in

# Our Students Love OER!

Student evaluations praise the

- Value!!!
- Free book download
- Videos & Practices
- Notes / Workbook
- Homework (interactive with immediate feedback)
- Practice Tests
- YouTube Channel

# Mathematics Courses - Resources Used

Beginning and Intermediate Algebra

Tyler Wallace - http://www.wallace.ccfaculty.org/book/book.html

College Algebra & Trig (56% success in my Summer 2016 section)

Lippman/Rasmussen http://www.opentextbookstore.com/precalc/

Stitz-Zeager - http://www.stitz-zeager.com/

CK12 Algebra - https://www.ck12.org/c/algebra/#/

Precalculus – OpenStax – https://openstax.org/details/books/precalculus

Statistics – OpenStax – https://openstax.org/details/introductory-statistics

# Intro to Psychology

Carnegie Mellon Open Learning Initiative: **oli.cmu.edu**

**Amber Gilewski**

# Computer Science & Applications

Introduction to Computer Science:

Think Python by Allen B. Downey

**Ken Whitener**

Microsoft Office Tutorials (free but not open)

http://www.gcflearnfree.org/topics/office2013/

# OER at Tompkins Cortland

Academic Writing
Accounting
Biology
Business
Communications
Economics
History
Meteorology
Political Science
Computer Applications
Computer Programming
Computer Information Systems
Computer Support Specialist
Speech
Mathematics
Psychology

# OER at Tompkins Cortland

## Business A.A.S

Next Generation, Achieving the Dream Grant

Fully OER Associates Degree in Business Administration

Launched Fall 2017

Requires OER in all GenEd Disciplines

TOMPKINS CORTLAND COMMUNITY COLLEGE

# Implementing OER on the TCCC Campus

- Define OER
- Designate a coordinator & support advocates
- Recruit faculty advocates
- Support from administration
- Promote OER on campus
- Incentive system

# Faculty approaches to OER

- Adopt – reuse materials created by others
- Blend – remix from multiple sources
- Customize – revise for your needs
- Develop – create and share new resources

# Faculty MOA

TOMPKINS CORTLAND COMMUNITY COLLEGE

MEMORANDUM OF AGREEMENT

This agreement pertains to the voluntary participation of Faculty Association members in the development and use of Open Educational Resources.

Open Educational Resources (OER) are any resources available at little or no cost that can be used for teaching, learning, or research. The term can include textbooks, course readings, and other learning content; simulations, games, and other learning applications; syllabi, quizzes, and assessment tools; and virtually any other material that can be used for educational purposes. OER typically refers to electronic resources, including those in multimedia formats, and such materials are generally released under a Creative Commons or similar license that supports open or nearly open use of the content. OER can originate from colleges and universities, libraries, archival organizations, government agencies, commercial organizations such as publishers, or faculty or other individuals who develop educational resources they are willing to share.

The use of OER involves the selection and use of materials and methods, not the teaching of a unique course. A section in which OER is used is credited to a faculty member's total load the same as any other non-OER section of the same course.

# OER Course Development Checklist

TOMPKINS CORTLAND COMMUNITY COLLEGE

## TOMPKINS CORTLAND COMMUNITY COLLEGE

*OER COURSE DEVELOPMENT PRECEPTS AND GUIDELINES*

1. **Instructor Information**

   Instructor Name: _____ Department: _____ Date: _____

2. **Course Information**

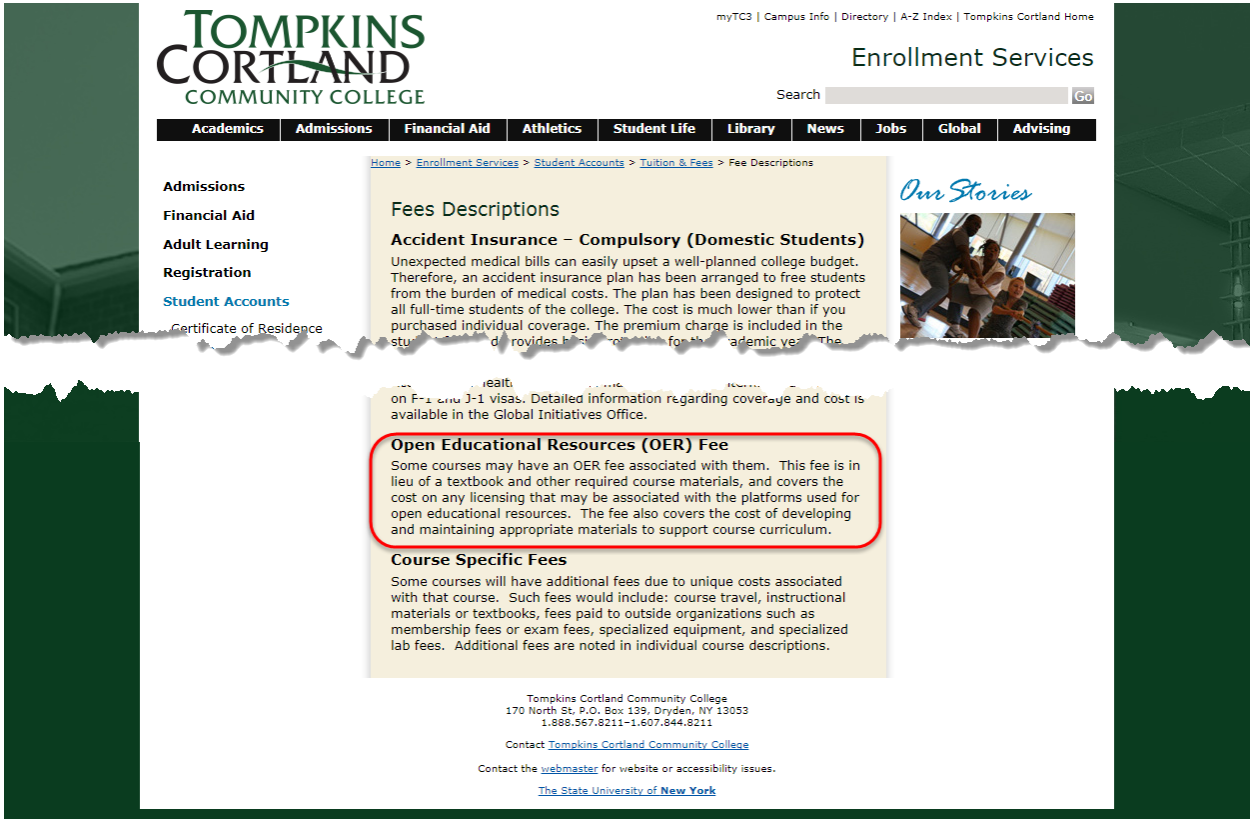
   Course Name: _____ Course ID: _____ Section: _____ Term: _____

   Course is adopted/developed: _____

3. **Instructional Design Reviewed by:**_____

| Y, N or N/A | Notes | |
|---|---|---|
| | | Course contains only OER (i.e., no publisher content is used) |
| | | All resources used (images, tables, graphs charts, etc.) are Creative Commons (CC) licensed, contain attribution, are in the public |

# Fee Descriptions



TOMPKINS CORTLAND COMMUNITY COLLEGE

myTC3 | Campus Info | Directory | A-Z Index | Tompkins Cortland Home

Enrollment Services

Search Go

Academics | Admissions | Financial Aid | Athletics | Student Life | Library | News | Jobs | Global | Advising

Admissions
Financial Aid
Adult Learning
Registration
Student Accounts
Certificate of Residence

Home > Enrollment Services > Student Accounts > Tuition & Fees > Fee Descriptions

## Fees Descriptions

### Accident Insurance – Compulsory (Domestic Students)

Unexpected medical bills can easily upset a well-planned college budget. Therefore, an accident insurance plan has been arranged to free students from the burden of medical costs. The plan has been designed to protect all full-time students of the college. The cost is much lower than if you purchased individual coverage. The premium charge is included in the

on F-1 and J-1 visas. Detailed information regarding coverage and cost is available in the Global Initiatives Office.

### Open Educational Resources (OER) Fee

Some courses may have an OER fee associated with them. This fee is in lieu of a textbook and other required course materials, and covers the cost on any licensing that may be associated with the platforms used for open educational resources. The fee also covers the cost of developing and maintaining appropriate materials to support course curriculum.

### Course Specific Fees

Some courses will have additional fees due to unique costs associated with that course. Such fees would include: course travel, instructional materials or textbooks, fees paid to outside organizations such as membership fees or exam fees, specialized equipment, and specialized lab fees. Additional fees are noted in individual course descriptions.

Our Stories

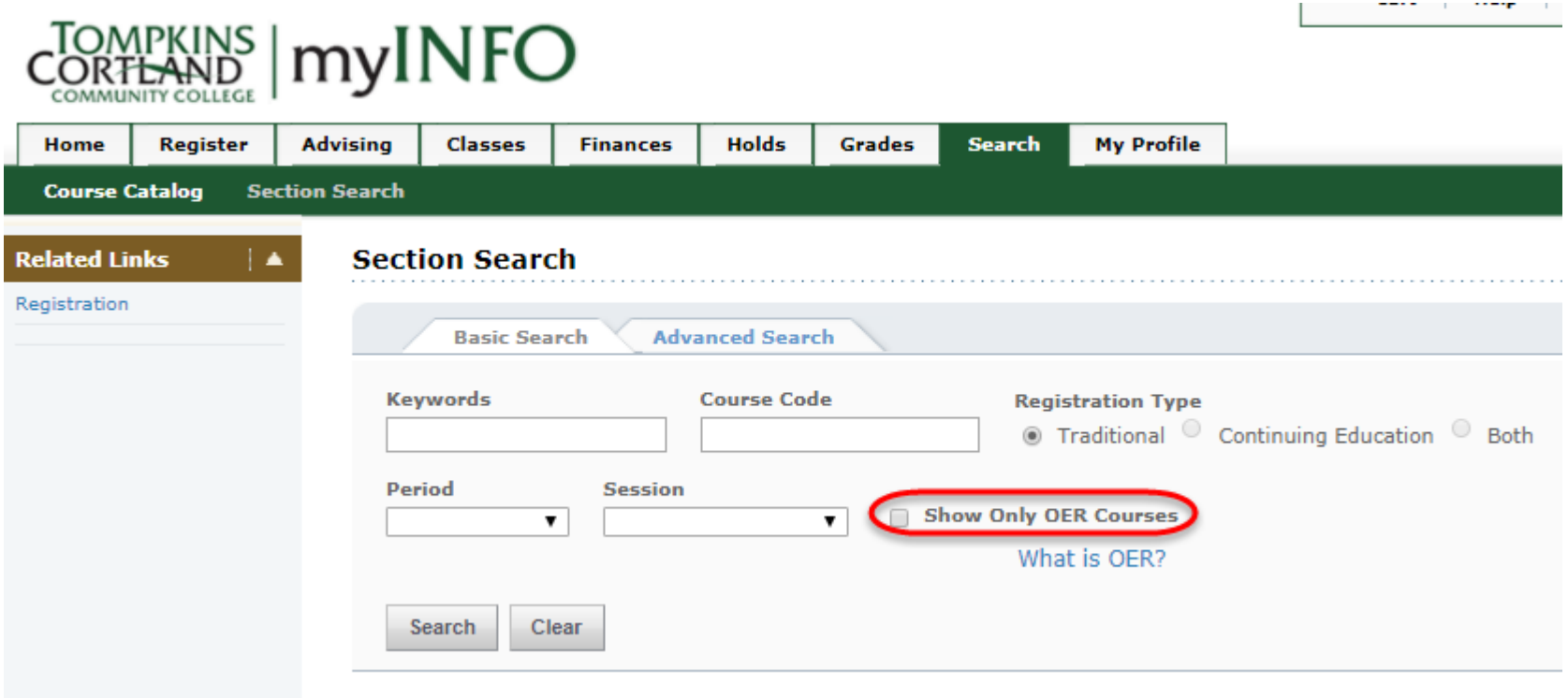
Tompkins Cortland Community College
170 North St, P.O. Box 139, Dryden, NY 13053
1.888.567.8211–1.607.844.8211

Contact Tompkins Cortland Community College

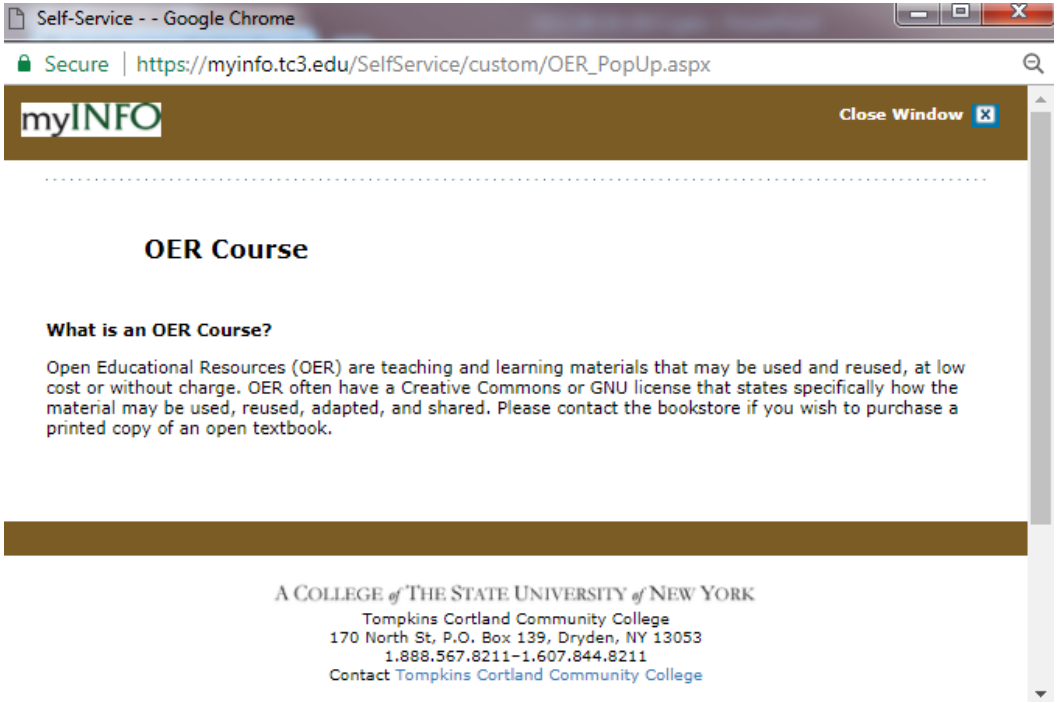
Contact the webmaster for website or accessibility issues.

The State University of New York

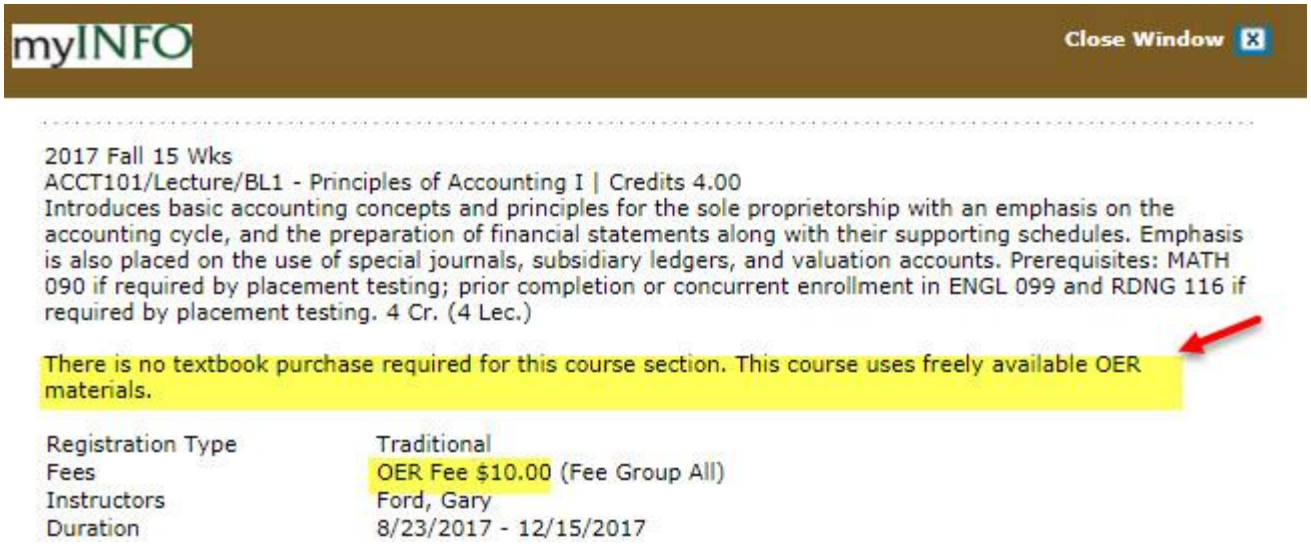
# Course Catalog in S.I.S.



# Course Catalog: What is O.E.R?



# Required Textbook and Course Materials



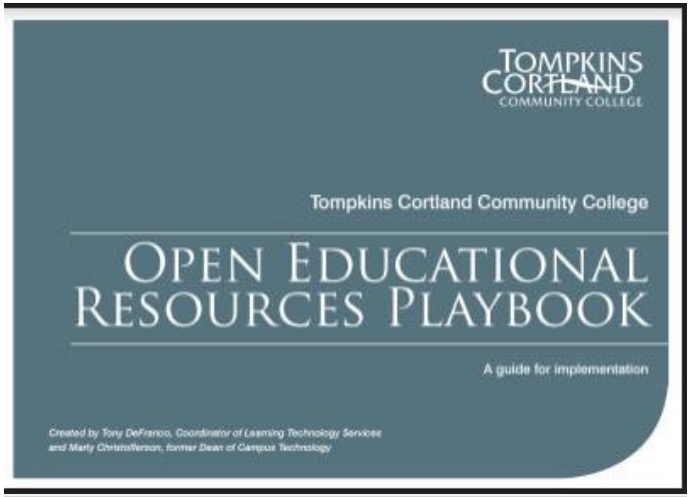
TOMPKINS CORTLAND COMMUNITY COLLEGE

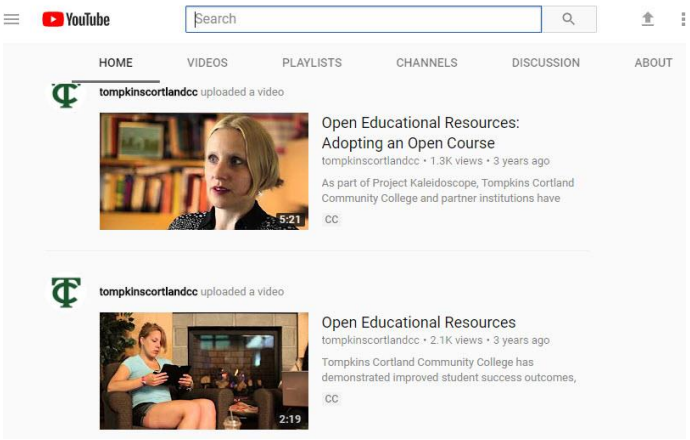
# Fall 2017 OER

- 41 instructors
- 35 courses
- 90 sections
- 1,700 enrollments

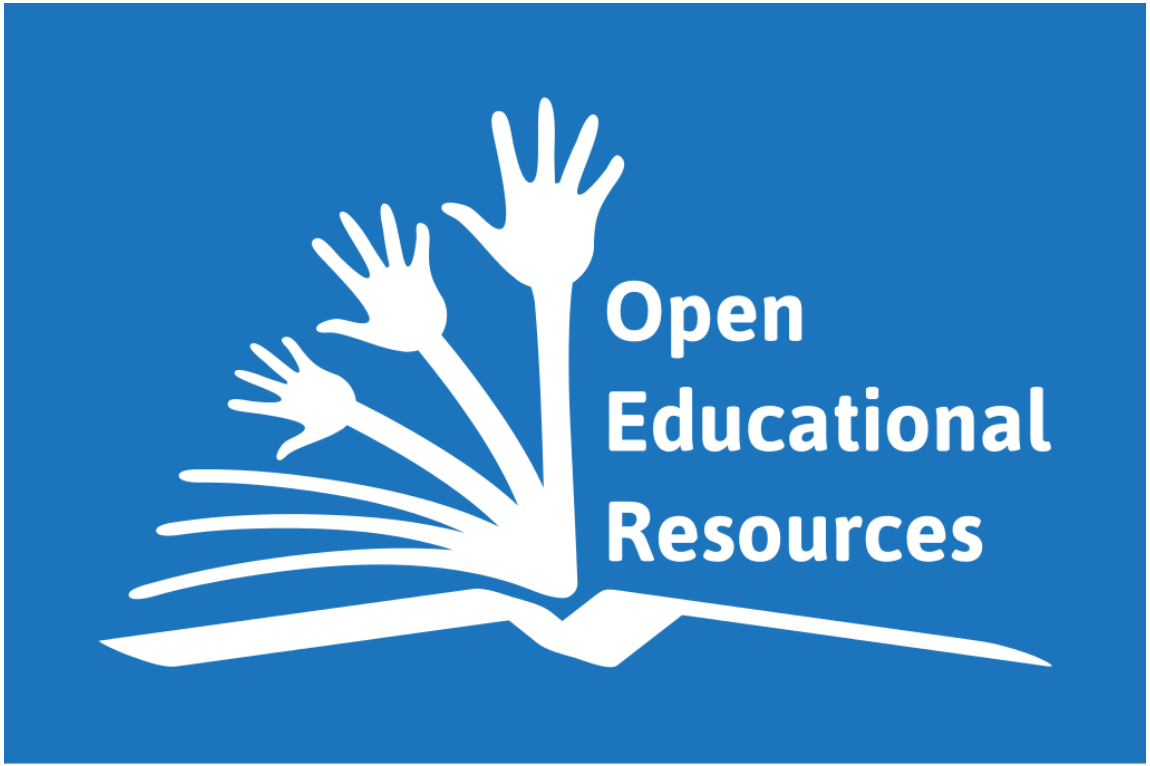
# Promoting and Scaling OER

- Developed OER Playbook
- Hosted OER Colloquium for SUNY
- Promotional videos



# FACT 2 OER Task Group



# Task Group Goals

Standardize a SUNY definition of OER

Engage the SUNY community and other OER experts to determine elements for a successful OER implementation

Create tools to scale and sustain campus OER efforts

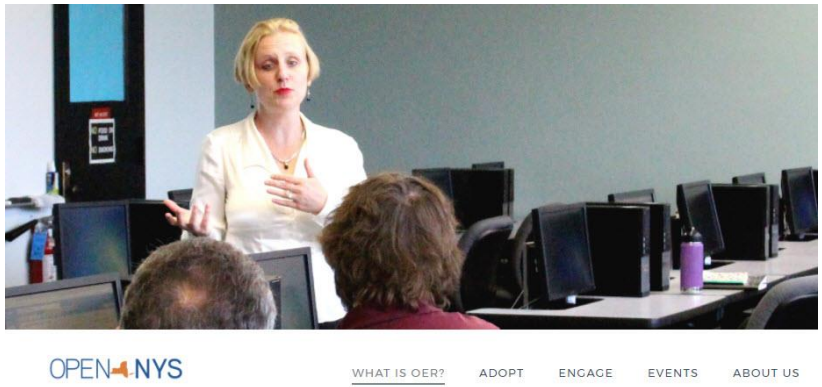
Benchmark and share best practices between campuses

Subgroups formed:

1. Faculty
2. Support
3. Institutional Readiness

# SUNY OER Services and Open NYS

## @SUNYOERServices open-nys.org




OPEN Textbooks SUNY OER services

# NY State Funding

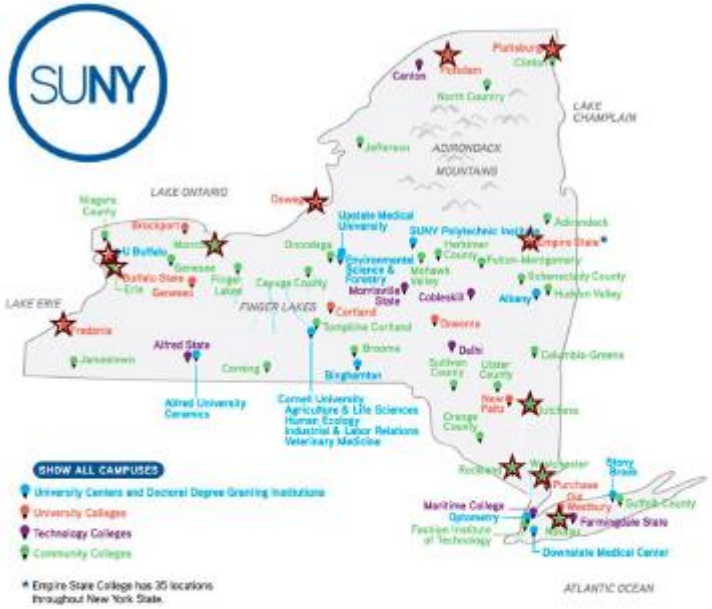
- Excelsior Scholarship 2017-2018:
    - $8million in tuition grants
    - $8million in OER initiatives
        * $4M SUNY + $4M to CUNY

- Scholarship Approved for 2018-2019
        * $4M approved for SUNY OER Initiatives

# SUNY OER Outreach

12 Workshops

August - November 2017




| | | | |
|---|---|---|---|
| Fredonia | Potsdam | Plattsburgh | Rockland |
| Westchester | Dutchess | Monroe | Erie |
| Empire State | Oswego | Buffalo State | Nassau |

# SOS Outreach

- Faculty and staff from 43 SUNY institutions (private colleges in spring)
- 447 Participants
- 426 OER Courses Statewide supported through SOS
- 53,322 SUNY Students in OER courses in the 2017-2018 Academic Year
- $6,100,000 in textbook savings reported until December 2017

# Where Else Can You Look?

- SUNY Open Textbooks https://textbooks.opensuny.org/
- Open NYS http://open-nys.org/
- Lumen Learning http://lumenlearning.com/
- Lumen Online Homework Manager https://ohm.lumenlearning.com/
- Open Learning Initiative – Carnegie Mellon http://oli.cmu.edu/
- OpenStax College http://openstaxcollege.org/
- Saylor http://www.saylor.org/
- Community College Consortium for Open Educational Resources http://oerconsortium.org/
- OER Commons https://www.oercommons.org

**Sophia Georgiakaki**
georgis@tompkinscortland.edu

Discussion…