

edX goes to high school

MOOCs serving high school teachers + students via blended learning

Julie Goff, Davidson College
jugoff@davidson.edu
davidson.edu/davidsonnext

Davidson Next: Advanced Placement (AP) MOOCs



Visit www.edx.org/school/davidson-next

AP Macroeconomics
Challenging Concepts



AP Physics 1
Challenging Concepts



AP Calculus
Challenging Concepts



Teaching with



AP Macroeconomics



AP Physics 2
Challenging Concepts



AP Calculus BC





14 modules per course: 1 common format


support


Electrostatic Fields


Overview and Objectives

Let's See What You Already Know
Pre-Assessment 

LC1: Interactions Between Charged Objects
Learning Cycles 

LC2: Electric Field From a Point Source
Learning Cycles  [Resume Course ➔](#)

LC3: Combining Fields From Multiple Sources
Learning Cycles 

Let's See What You've Learned
Post-Assessment 

Teacher Resources

Student Resources

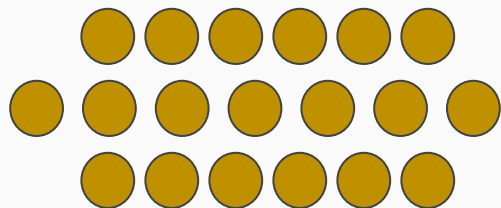
Students + teachers can
“pick and choose”

Focus on key concepts +
areas where they need
support

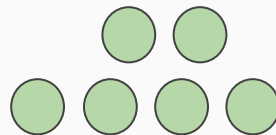
Especially for teachers
teaching courses out of field
- provides “guest lecturer”

Bad for completion rates -
but that wasn't our goal

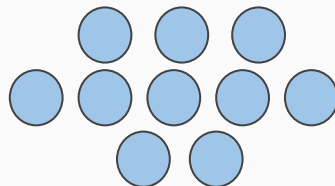
2014-2015: Courses piloted via edX Edge (separate instances)



AP Calculus



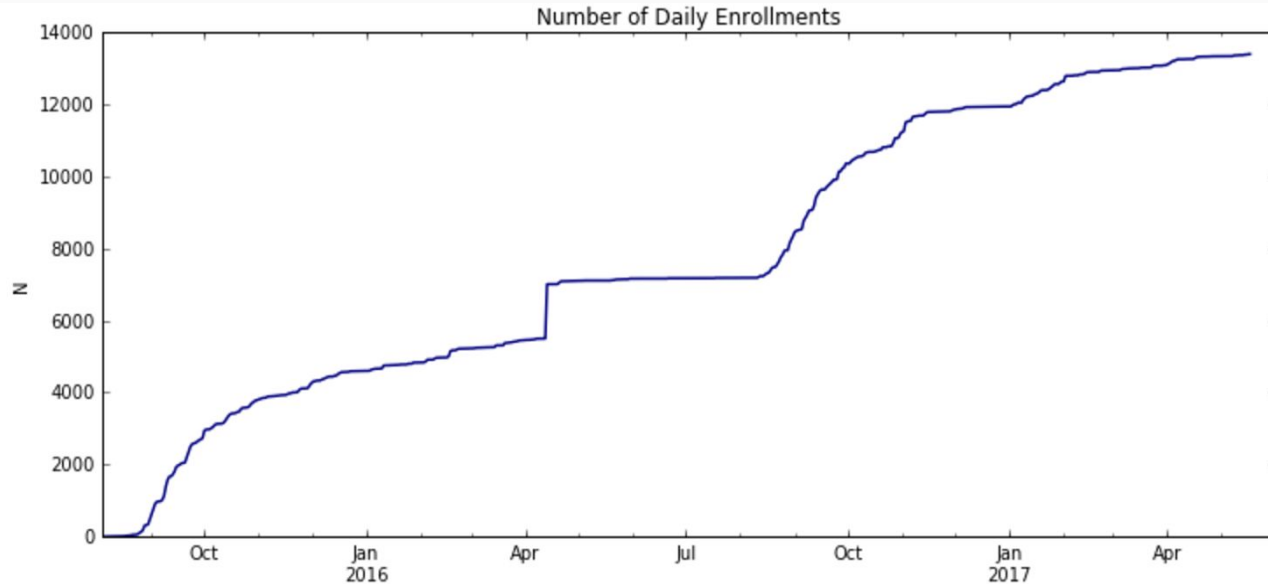
AP Macroeconomics



AP Physics

35 teachers
1200+ students
26 high schools

2015 - 2017: Teachers + Students Using CCX

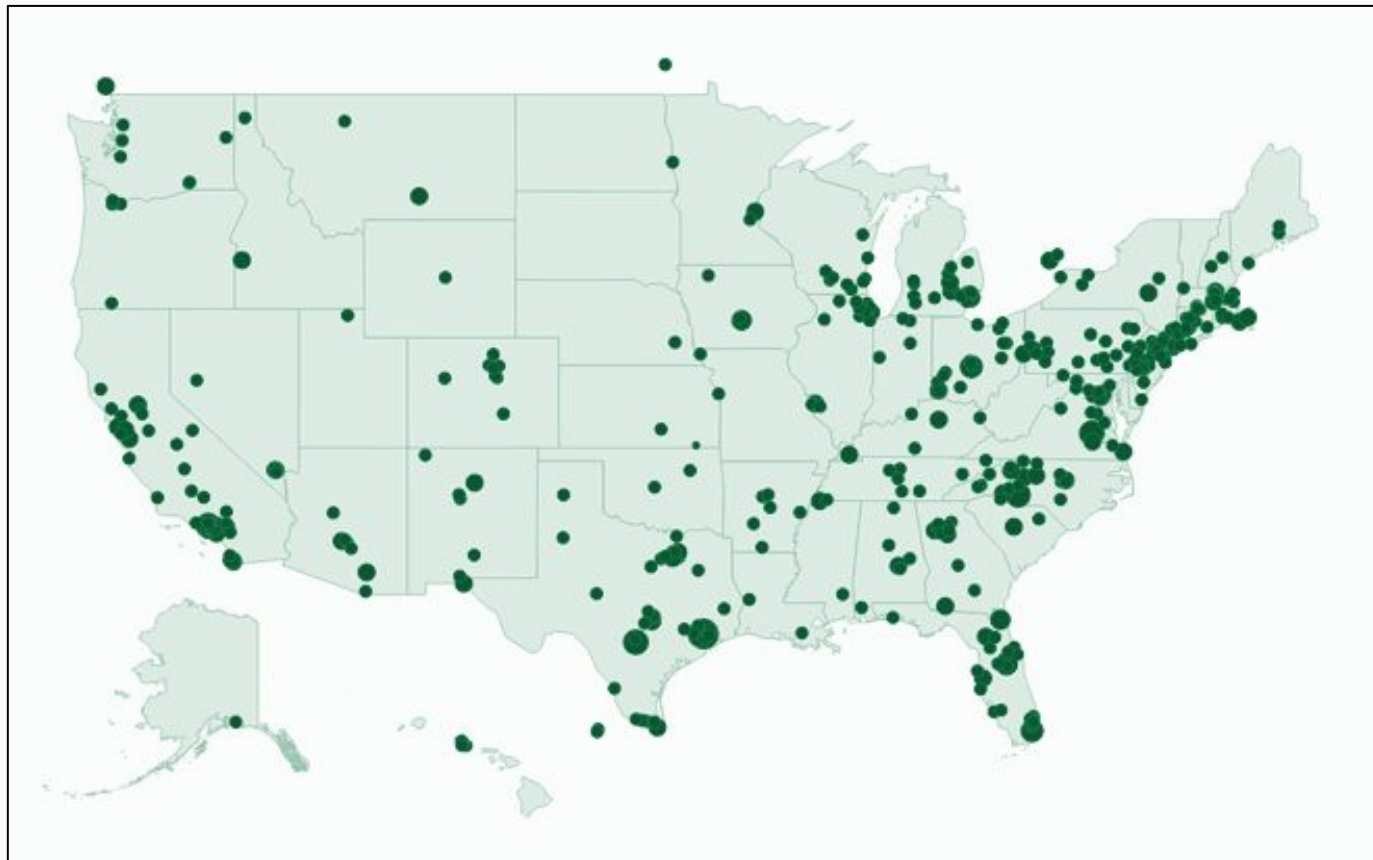


Students:
13,117

Teachers: 510

2016-2017: "Private Versions": CCX on edX Edge

Private Versions



296

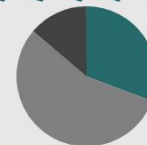
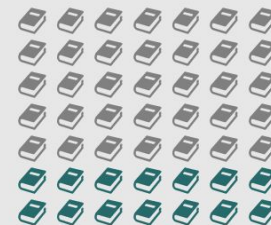
Classrooms

201

Public Schools


57

Private Schools




● Rural
● Suburban
● Urban

Set-up + Support Model: Hybrid Learning via CCX



AP Physics 1
Challenging Concepts
DAVIDSON
next



AP Physics 2
Challenging Concepts
DAVIDSON
next

Davidson Next AP Physics: Teacher Guide

Custom Courses on edX ("CCX")

Custom courses on edX, or "CCX" for short, is a new tool for the edX platform that allows teachers to create a private copy of an existing edX course for use with their students. The private version, or "custom course (CCX)", is controlled by the teacher who can edit the course schedule (release/due dates) and view student progress and performance.


Improvements to CCX slated for 2016-2017

You all are early adopters and at the absolute front of this technology. Thank you for your patience, and we will do all that we can to support your use of the CCX tool. Throughout the 2016-2017 school year, we will be making significant improvements to the CCX tool. Before changes go into effect, we will always provide you with advance notice and tutorials on how to utilize these new features. These planned updates and improvements will in no way disrupt your course experience; they will only make it easier for you to see your students' progress and understand their performance.


Creating your Custom Course

As a teacher, you will interacting with two different courses on edge.edx.org:

- base course: a course created by Davidson Next from which your custom course will draw content. This course is a public website and your students could access it, although they



AP Physics 1
Challenging Concepts
DAVIDSON
next



AP Physics 2
Challenging Concepts
DAVIDSON
next

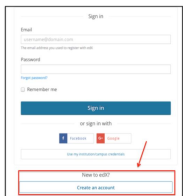
Davidson Next AP Physics: Student Guide

Davidson Next is a collection of modular material aimed to improve your mastery of challenging concepts in the AP curriculum. Below are steps for registering with edX Edge and navigating the process of accessing your teacher's course.

Joining your custom course on edX Edge

Your first step is to create an account at "edge.edx.org". This will require a valid email address from which you can confirm your account.

- Visit: <https://edge.edx.org/login>
- Click "create account" at the bottom of the page.
- Information needed to register:
 - Valid email address (you will need this to confirm registration).
 - your Full Name
 - Public Username (This is visible to your teacher and is used to record grades; be sure to pick something your teacher can easily match to your full name.)
 - Demographic Information (You can ignore the "Mailing Address" field.)



Once registered, you will be taken to a blank dashboard. This is where your future course will be linked.

Higher level of customer service + support than public MOOCs

Advertise "private versions" are available

Teachers email Davidson Next team to request CCX (not ideal): manual setup in edX Edge

Teachers enroll students (all required to create unique accounts)

Manual process causes some attrition

Expert high school teacher retained by Davidson to monitor public forums + field content questions from CCX coaches

Essentially, running year-round "helpdesk" for CCX users in our courses