



# On Quality and Student Success

## *The Dream Team*

Mark David Milliron  
[mark.milliron@civitaslearning.com](mailto:mark.milliron@civitaslearning.com)

"MY NEW FAVORITE BOOK OF ALL TIME." —BILL GATES

**STEVEN  
PINKER**

**ENLIGHTENMENT  
NOW**

**THE CASE FOR  
REASON, SCIENCE,  
HUMANISM,  
AND PROGRESS**

# CHALLENGE OF PROGRESS

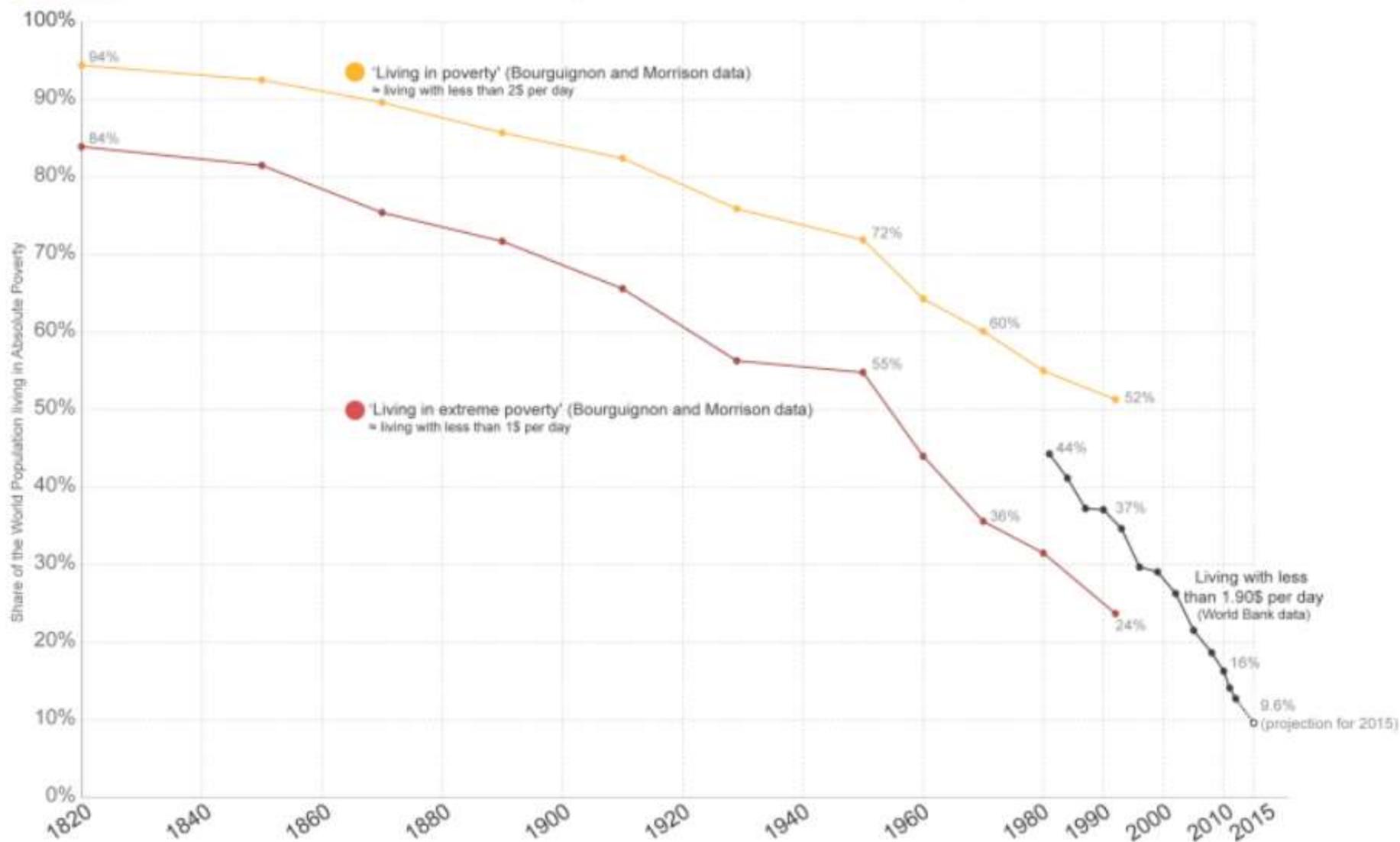
Progress is Not Guaranteed; It's Been Work  
(insight, energy, innovation, intention)

- *Life expectancy*
- *Malthus and Hunger*
- *Child Mortality & Maternal Health*
- *Global Health*
- *Inequality*
- *Crime and War*



# Share of the World Population living in Absolute Poverty, 1820-2015

All data are adjusted for inflation over time and for price differences between countries (PPP adjustment).



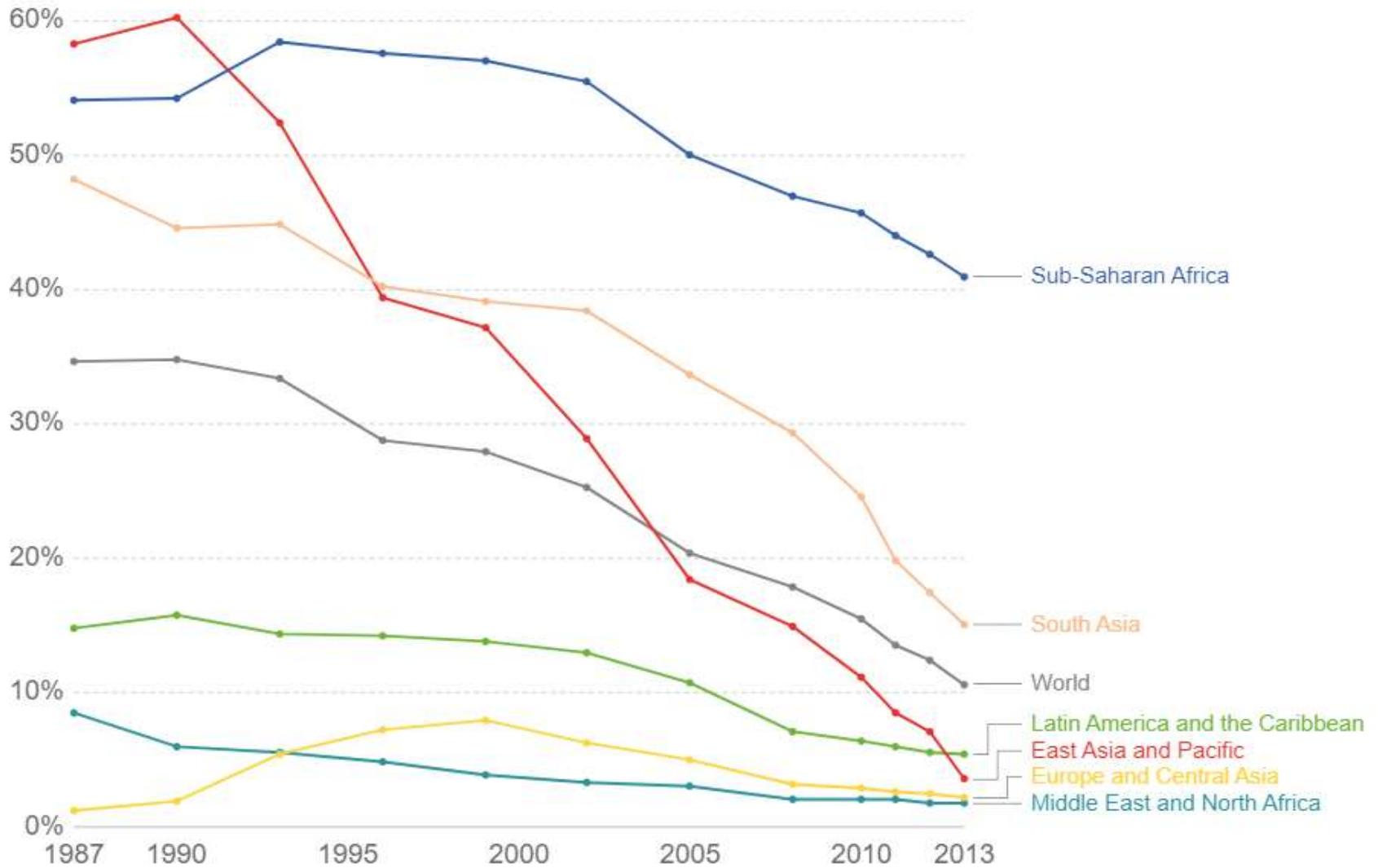
Data sources: 1820-1992 Bourguignon and Morrison (2002) - Inequality among World Citizens, In The American Economic Review; 1981-2015 World Bank (PovcalNet)

The interactive data visualisation is available at [OurWorldinData.org](http://OurWorldinData.org). There you find the raw data and more visualisations on this topic.

Licensed under CC-BY-SA by the author Max Roser.

# Share of the population living in extreme poverty, by world region

Extreme poverty is defined as living with per capita household consumption below 1.90 international dollars per day (in 2011 PPP prices). International dollars are adjusted for inflation and for price differences across countries.



Source: Share of the population living in extreme poverty by world region - PovcalNet World Bank

Note: Consumption per capita is the preferred welfare indicator for the World Bank's analysis of global poverty. However, for about 25% of the countries, estimates correspond to income, rather than consumption.

OurWorldInData.org/extreme-poverty/ • CC BY-SA

# CHALLENGE OF PROGRESS

- “Whether or not the world is really getting worse, the nature of news will interact with the nature of cognition to make us think it is.”
- “Availability heuristic: people estimate the probability of an event or the frequency of a kind of thing by the ease with which instances come to mind.”



# CHALLENGE OF PROGRESS

“Nothing is more responsible for  
the good old days than a  
bad memory.”

- *Franklin Pierce Adams*





5,990 views | Jul 9, 2015, 09:46am

# Higher Education 'Is Failing Students And Employers'



**Nick Morrison** Contributor ⓘ  
OLD Education

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Higher education is failing to meet the needs of both students and employers, and only a fundamental transformation can put it on the right track.

# 18 REASONS THE U.S. EDUCATION SYSTEM IS FAILING

BY [MATTHEW LYNCH](#) / ⌚ APRIL 3, 2017 / 💬 24



# Why Community Colleges Are Failing Underserved Youth

06/14/2017 12:25 pm ET



# CHALLENGES IN EDUCATION

- Access & Enrollment
- Broader Success Indicators
  - ✓ STEM, Completion, on-time completion, transfer, equity gaps, post-graduation outcomes, workforce impact
- Diversity & the Personalization of Student Experiences
- Resource Optimization
- Policy/Technology/Data Chaos





# *Dream Team Making Progress*

Quality & the Learning Mix

Data Science & the Learning Pathway

Leadership & the Road Ahead

# Quality & the Learning Mix

## Face to Face Infrastructure

- \*Classrooms
- \*Lecture Halls
- \*Training Labs
  - \*Locations
  - \*Simulators
- \*Office Hours
  - \*Library
- \*Open Space



## Online Infrastructure

- \*Website
- \*Learning Mgt Systems
- \*Content Repositories
- \*MOOCs
- \*Social Networks
- \*Mobile Apps

## Activities

Lecture, Dialogic, Small Groups, Contextual Learning, Simulations, Learning Communities, i-BEST, Project-Based Learning, Self-Directed Learning, Blended Learning, Accelerated Learning, Competency-Based Learning

**75%**

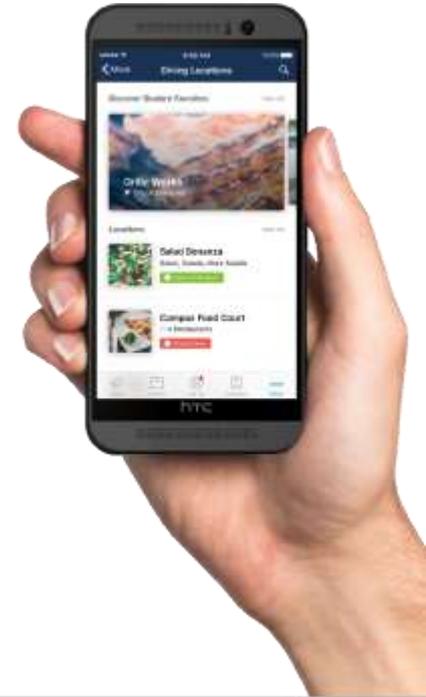
**believe using personal devices in the classroom  
has improved their ability to learn**

**58%**

**use their phones to take pictures of lecture slides**

**39%**

**use mobile devices to access a digital textbook**



# Quality & the Learning Mix

CRUNCH NETWORK

## Still a virtual reality skeptic? Here's why you shouldn't be

Posted 4 hours ago by [Ian Hetherington](#)



**Ian Hetherington**  
CRUNCH NETWORK CONTRIBUTOR

Ian Hetherington is a co-founder and chairman

The original PlayStation console, launched when I was the managing director of Sony Computer Entertainment for Europe, shook the gaming world. The 3D environment was unfamiliar to



AdChoices

### CrunchBase

**Meta**

FOUNDED  
2012

#### OVERVIEW

Meta offers users a total augmented reality (AR) experience: - See, create, and interact with virtual objects and apps inserted in the real environment - Display with wearable glasses - Control with hand gestures Meta's goal is to lead the next evolution of personal computing through augmented reality, replacing desktops, laptops, tablets, and smartphones.

# Quality & the Learning Mix



**UNIQUE AIR-POWERED SOUND SYSTEM**

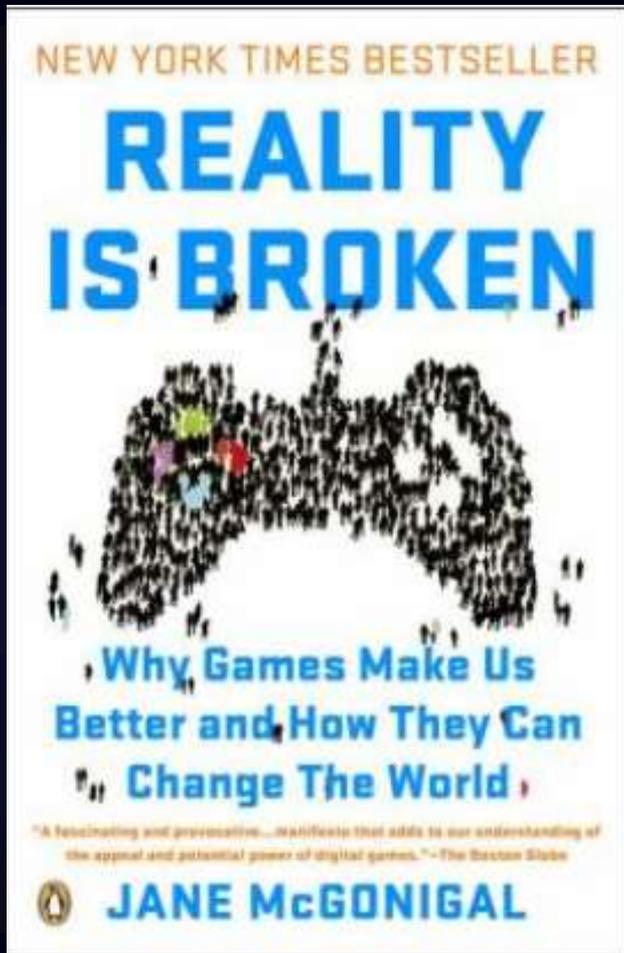
The infotainment system also integrates a high-end sound system from Alpine. It features the unique "FreshAir" subwoofer - a not yet released technology that uses the air outside the car to create the ultimate listening experience.

0:06 / 2:15

FEATURES ON OFF

Settings, Full Screen, and other video player controls are visible at the bottom.

# Quality & the Learning Mix



# Quality & the Learning Mix



**SC UP** Society for College and University Planning

**Membership** | **Regions**

## The death of “online” learning in higher ed

As technologies become ubiquitous, familiar labels will vanish

By Craig Weidemann and Karen Pollack — University Business, March 2016

[Twitter](#) [Facebook](#) [LinkedIn](#)

**O**nline learning has expanded dramatically over the past two decades.



# Learning Unbound

Global Online Academy is a nonprofit organization that reimagines learning to empower students and educators to thrive in a globally networked society.

# Quality & the Learning Mix



OER COMMONS  
Discover ▾ Hubs ▾ Groups ▾ Our Services ▾ Create ▾ Sign In/Re

Explore. Create. Collaborate.

OER Commons is a public digital library of open educational resources. Explore, create, and collaborate with educators around the world to improve curriculum.

What are you looking for?  Subject ▾ Education Level ▾ Standard ▾ Search

Fine tune your search with our advanced search.

**big ideas fest 2018**

Nov 29-Dec 2, 2018 in Washington, DC [join us!](#)



## Open Learning Initiative

at Stanford University

Transforming higher education through the science of learning.



[Home](#) [About](#) [Research](#) [Resources](#) [Events](#)



# LINK RESEARCH LAB

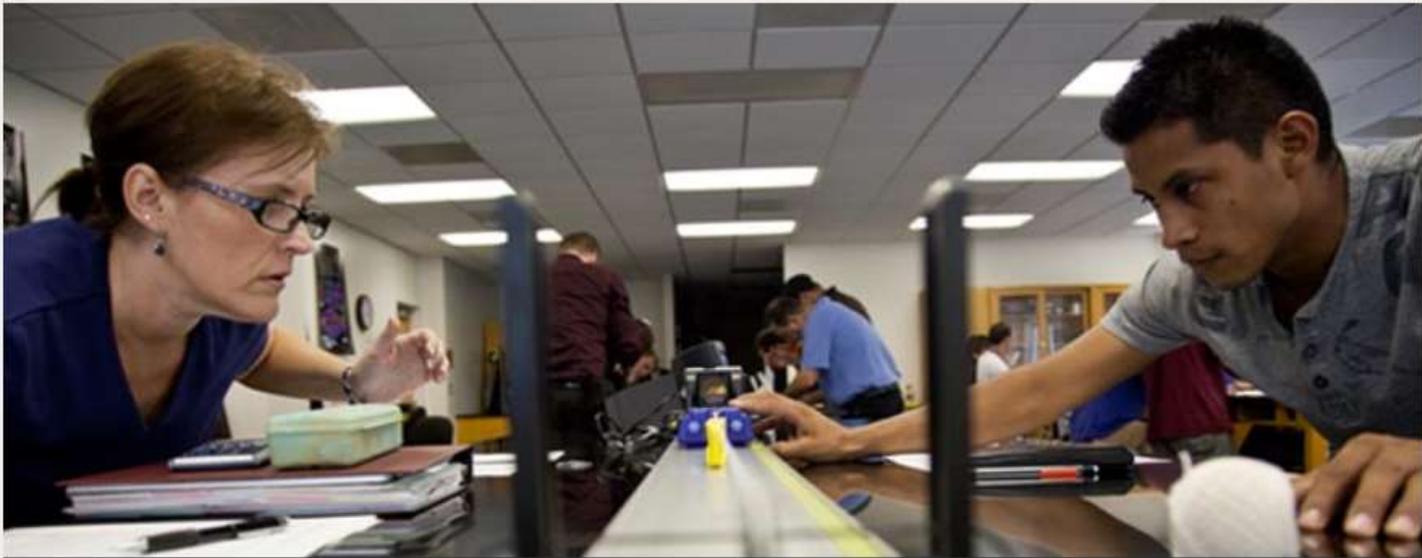
WHAT DOES IT MEAN TO BE HUMAN IN A DIGITAL AGE?

# Data Science & Learning Pathways

— What We Do —

## POSTSECONDARY SUCCESS

STRATEGY OVERVIEW



*A physics lab at Central Piedmont Community College in Charlotte, North Carolina, which offers nearly 300 degree and certificate programs.*

**OUR GOAL:** to ensure that all students who seek the opportunity are able to complete a high-quality, affordable postsecondary education that leads to a sustaining career.



**Medications**

**simvastatin**  
(ZOCOR), 40 mg tablet  
Take 1 tab by mouth nightly.  
REFILL

**albuterol**  
(PROVENTIL, VENTOLIN), 90 mcg/act inhaler  
inhale 2 puffs every 6 hours as needed for wheezing.  
REFILL

**levothyroxine**  
(SYNTHROID), 100 mcg tablet  
Take 1 tablet by mouth once daily.  
REFILL

**diltiazem**  
(CARDIZEM CO), 240 MG ER capsule

**Appointments**

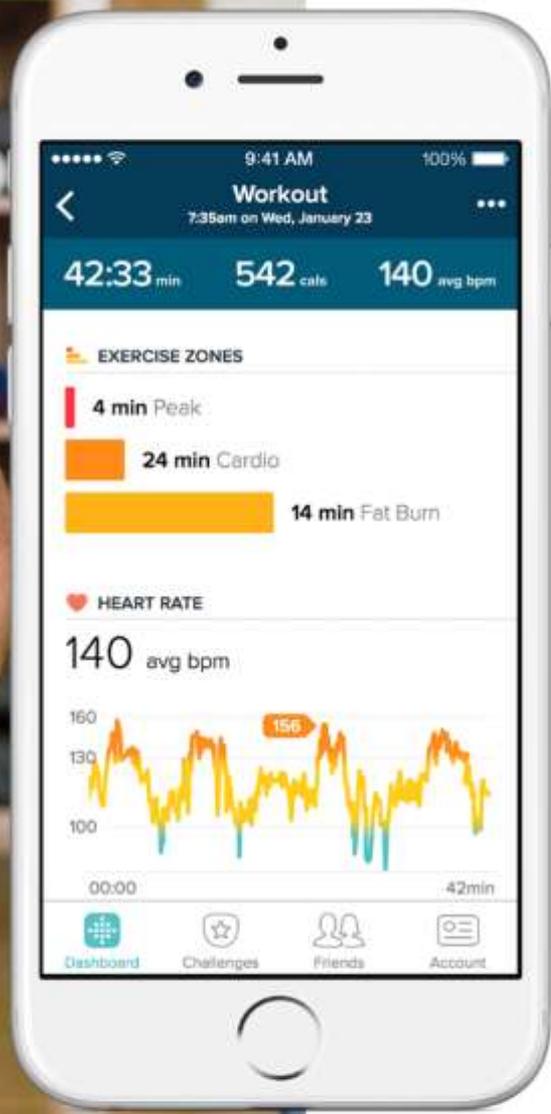
**NEXT 7 DAYS**

**SEP 19 2016** **Chiropractic**  
Monday, September 19, 2016  
7:40 AM  
Stan Winston, D.C.  
West Bluff Clinic  
CANCEL ECHECK-IN

**SEP 20 2016** **Office Visit**  
Tuesday, September 20, 2016  
12:15 PM  
Marty Seeger, M.D.  
Maple Ridge Family Practice  
CANCEL ECHECK-IN

**PAST**

**AUG 18 2016** **Chiropractic**  
Stan Winston, D.C.  
West Bluff Clinic



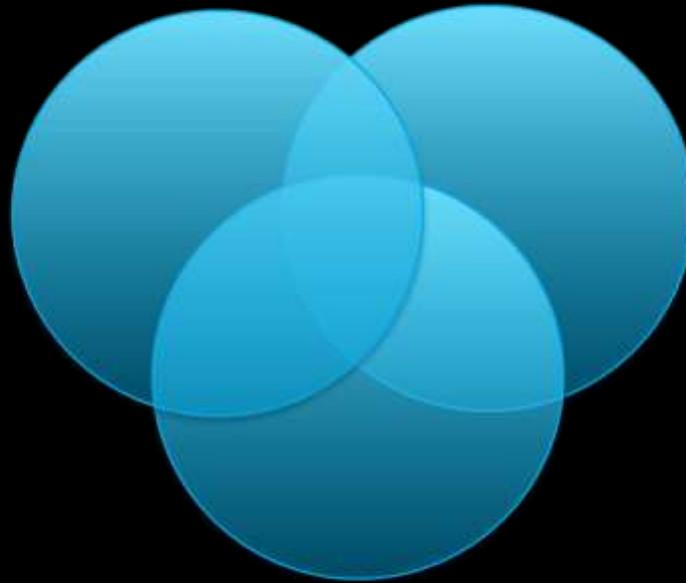




GE's Adventure Series redesigns imaging equipment including MRIs, X-ray machines and CT scanners like the pirate-themed machine pictured here to make the procedures less scary for kids.

# *Data Science & Learning Pathways*

Personalized  
Pathways

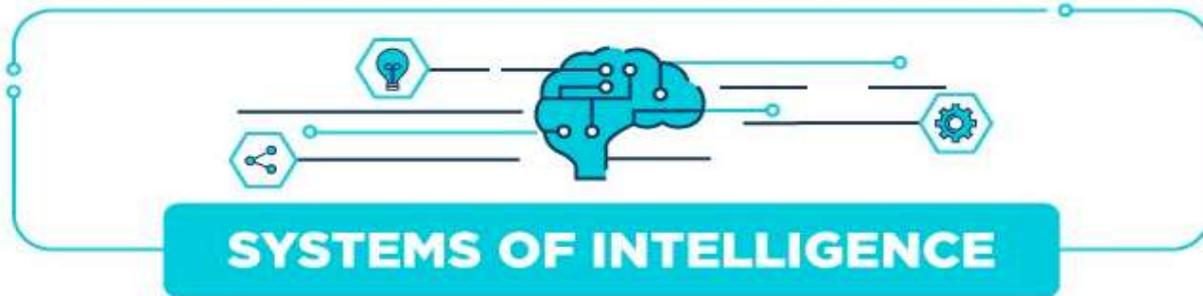


Precision  
Engagement

Student Success  
Intelligence  
Platform



# CREATING A SYSTEM OF INTELLIGENCE FOR EDUCATION



# PERSONALIZED INSIGHTS DRIVE ACTION ACROSS THE STUDENT LIFECYCLE

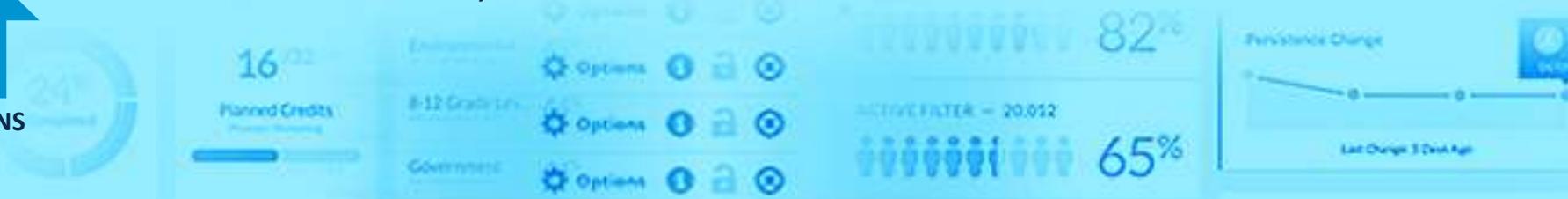
USERS



## IMPACTFUL APPLICATIONS, ACTIVITIES & FLEXIBLE API'S



ACTIONS



## INSTITUTION-SPECIFIC APPROACH – 1500+ MODELS IN PRODUCTION



MODELS



## DEPTH OF DATA – 95% OF PREDICTIVE POWER COMES FROM DERIVATIVES



DERIVATIVES

ACTIVITY	ACADEMIC	LIFE & LOGISTIC
LMS engagement score	Blended modality features	Degree program alignment scores
LMS activity streak	GPA consistency features	Credits withdrawal patterns
LMS relative-to-section average	Terms attempted/completed ratio	Financial aid change variables

## BREADTH OF DATA – CROSS-SYSTEM & CROSS-INITIATIVE



DATA



SIS



LMS



FINANCIAL AID



CRM



ADMISSIONS

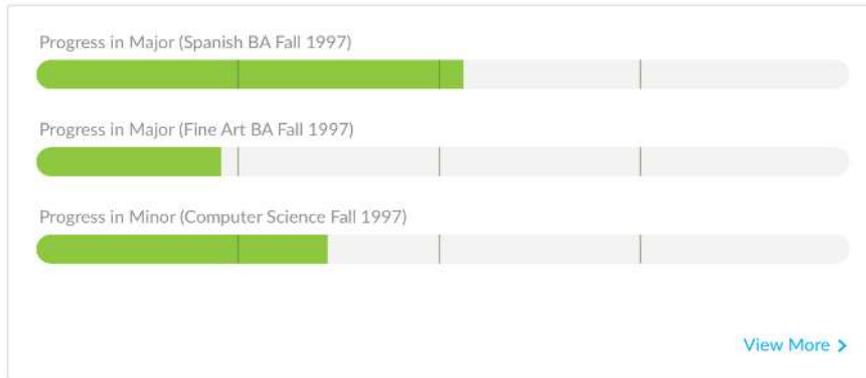


TUTORING





**ARIZONA**  
 George Stephanopoulos  
 Student ID: FAO307  
 Program: Liberal Arts Undergraduate  
 Catalog: Fall 1997



## Degree Progress

[Plan Course](#)

[Print/Email Progress](#)

COMPLETED	2016 Fall
BIOLOGY -121	3
BIOLOGY -225	3
BIOLOGY -400	3
CHEM -302	3
<b>Credits</b>	<b>12</b>

COMPLETED	2017 Spring
BIOLOGY -300	3
BIOLOGY -325	3
CLAS -343	3
CLAS-358	3
<b>Credits</b>	<b>12</b>

CURRENT TERM	2017 Winter
<a href="#">Show Planned Courses</a>	
<b>Credits</b>	<b>0</b>



Filter Requirements By

All Requirements ▼



Remaining



Planned



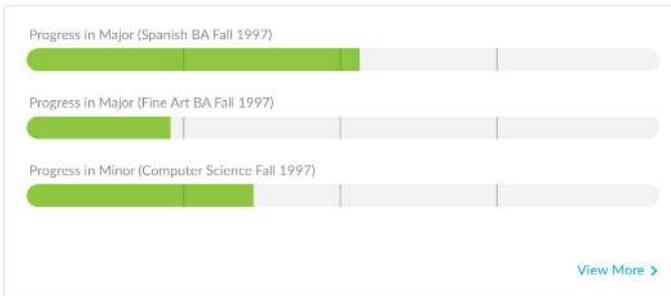
Registered



Completed



**ARIZONA**  
 George Stephanopoulos  
 Student ID: FAO307  
 Program: Liberal Arts Undergraduate  
 Catalog: Fall 1997



## Compare Degrees

Compare your progress in a different academic major, explore minors to add and see a list of certificates you may be able to claim.

I want to compare my progress in a different academic major ▼

A.T.D. Pharmacy Technician x Computer Science x ▼

## Results

Filter Results

**Pharmacy Tech** ARCID  
 Major - MBA

Estimated Degree Progress



[Evaluate in my current plan >](#)

**Computer Programmer** ARCID  
 Major - MBA

Estimated Degree Progress



[Evaluate in my current plan >](#)

**Pharmacy Tech** ARCID  
 Major - MBA

Estimated Degree Progress



[Evaluate in my current plan >](#)

**Computer Programmer** ARCID  
 Major - MBA

Estimated Degree Progress



[Evaluate in my current plan >](#)

**Pharmacy Tech** ARCID  
 Major - MBA

Estimated Degree Progress



[Evaluate in my current plan >](#)

**Computer Programmer** ARCID  
 Major - MBA

Estimated Degree Progress



[Evaluate in my current plan >](#)





### Job Demand

**HIGH**

Posting Volume

**3,543**

Jobs Posted

In the selected location in the last 12 months

## UI/UX Designer

Make This My Career Goal

### What will I do?

Assist with technology design to make products easier for people to use. Determine user preferences and assess the process that users follow to access product functions; develop and test new design models, and incorporate findings in to improved product design. Research the behavior of internet users and consumers, compile information about the target audience for a site, and develop website layout, design and technology features that improve accessibility and value for users.

Most UI / UX Designer job postings require a Bachelors Degree

### What skills will I need?

#### Software

- JavaScript
- JQuery

#### Specialized

- User Interface (UI) Design
- Visual Design

#### Foundation

## Similar Careers

Graphic Designer/Desktop Publisher

[IT Project Manager](#)

Mobile Applications Developer

Multimedia Designer

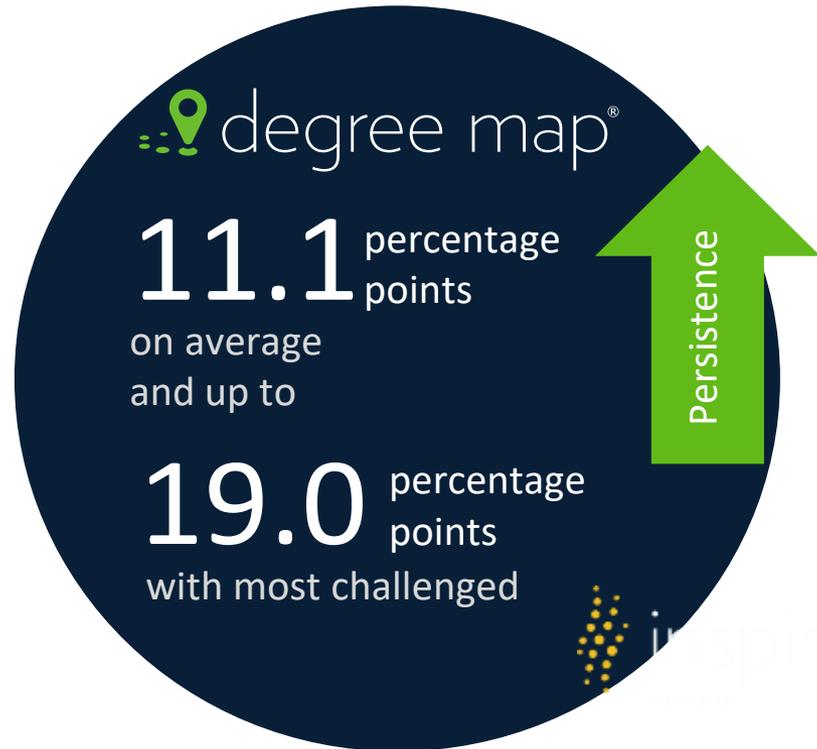
Software Developer

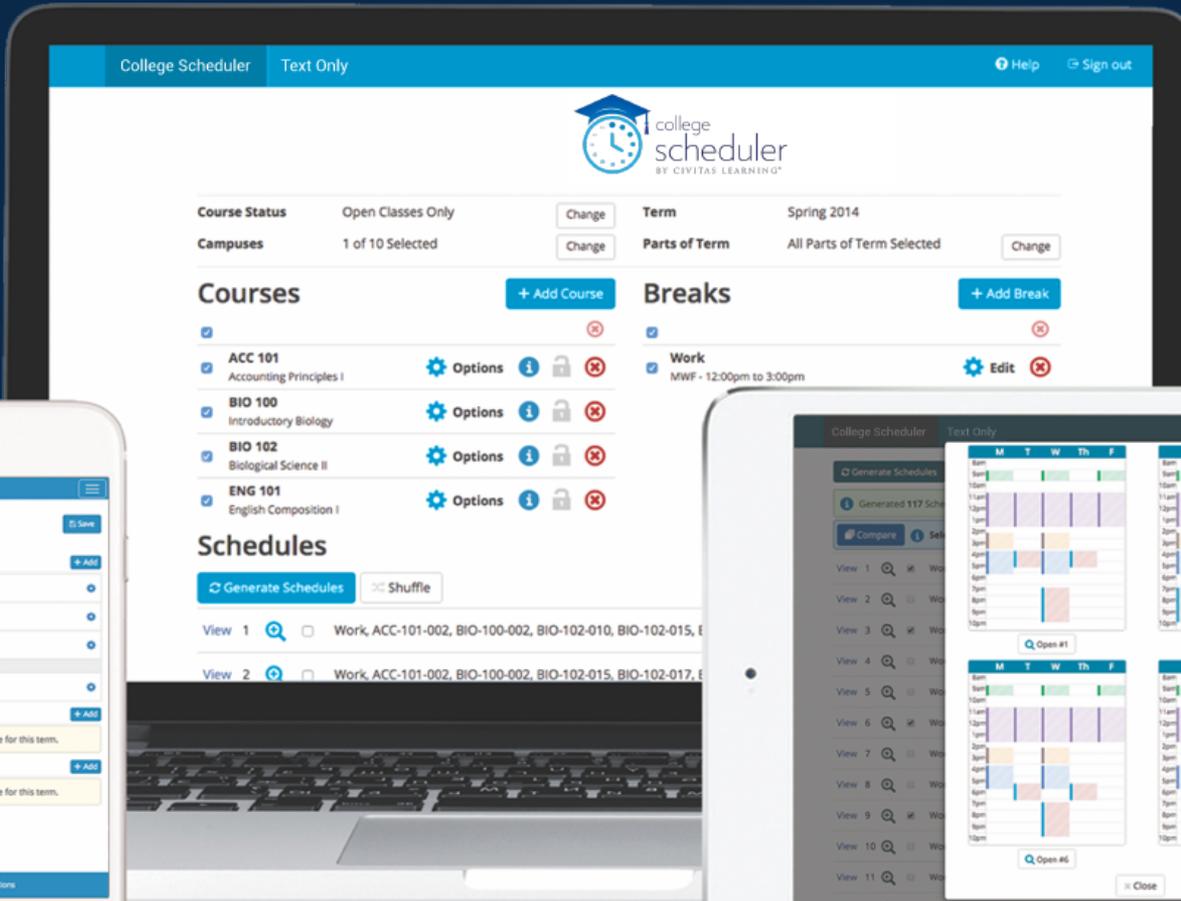
Product Designer

Interactive Designer

UX Designer

# IMPACT ON STUDENT OUTCOMES





College Scheduler | Text Only | Help | Sign out

college scheduler BY CIVITAS LEARNING®

Course Status: Open Classes Only | Change | Term: Spring 2014

Campuses: 1 of 10 Selected | Change | Parts of Term: All Parts of Term Selected | Change

**Courses** + Add Course

- ACC 101 Accounting Principles I | Options | Info | Lock | Delete
- BIO 100 Introductory Biology | Options | Info | Lock | Delete
- BIO 102 Biological Science II | Options | Info | Lock | Delete
- ENG 101 English Composition I | Options | Info | Lock | Delete

**Schedules** + Add Break

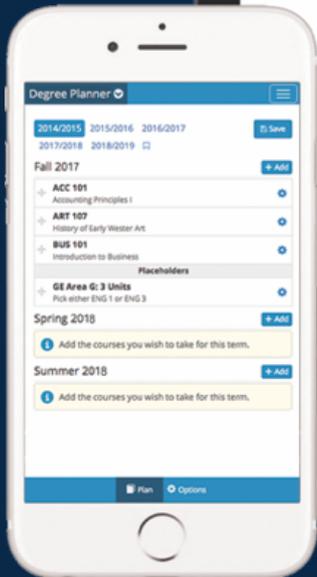
Generate Schedules | Shuffle

View 1: Work, ACC-101-002, BIO-100-002, BIO-102-010, BIO-102-015, ...

View 2: Work, ACC-101-002, BIO-100-002, BIO-102-015, BIO-102-017, ...

**Breaks**

- Work MWF - 12:00pm to 3:00pm | Edit | Delete



Degree Planner

2014/2015 | 2015/2016 | 2016/2017 | See

2017/2018 | 2018/2019 | Add

**Fall 2017** + Add

- ACC 101 Accounting Principles I
- ART 107 History of Early Western Art
- BUS 101 Introduction to Business

Placeholders

**GE Area G: 3 Units** Pick either ENG 1 or ENG 3

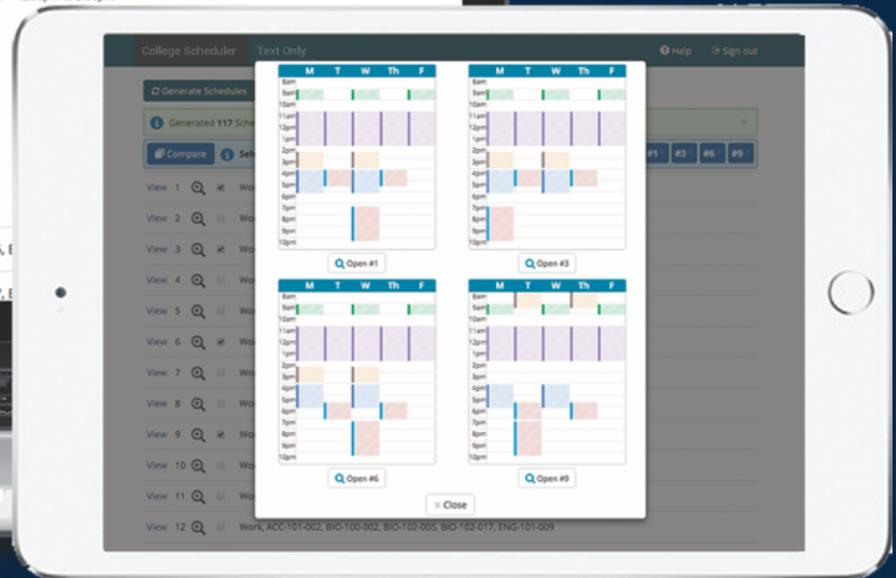
**Spring 2018** + Add

1 Add the courses you wish to take for this term.

**Summer 2018** + Add

1 Add the courses you wish to take for this term.

Plan | Options



College Scheduler | Text Only | Help | Sign out

Generate Schedules

Generated 117 Schedules

Compare | Select

View 1 | View 2 | View 3 | View 4 | View 5 | View 6 | View 7 | View 8 | View 9 | View 10 | View 11 | View 12

Open #1 | Open #3 | Open #4 | Open #9

Close





search students by first/last name, preferred name, or student ID

### ADVISE



All Students 8,248

My Assigned Students 683

Advising Notes

Alerts

Groups

### ENGAGE



#### Engagement Opportunities

Number of Opportunities 6

Students matched to an opportunity 127

Number of opportunities addressed 71

[See all opportunities](#)

Engagement opportunities surface insights to help you prioritize how to best support students. They represent circumstances that are predictive of a student's likelihood to persist and where they could benefit from engaging with support staff.

### CONNECT



#### Calendar

Week of Nov 11, 2018

Appointments 14

Events 2

Messages 2 unread

Announcements

Library

Directory

### REPORT



Create Report

Saved Reports

# Advising Management

ADVANCED SEARCH

Students

Advising Notes

Alerts

Groups

My Advising Notes

All Advising Notes

## My Advising Notes (211)

Advising Notes are never shared with students

<input type="checkbox"/> STUDENT	DESCRIPTION/TOPIC	APPT DATE	DATE CREATED	DATE MODIFIED	
<input type="checkbox"/> Vera Carter	Interest in Political Science	Nov 12, 2018	Nov 9, 2018	Nov 12, 2018	



Vera Carter

Undergraduate  
Fall 2018 - Spring 2020  
History

Vera is a recent transfer student but says she has been adjusting well for the most part. She said she is struggling with a couple of classes, but overall feels she can improve her grades with some focus. She did express some anxiety about what she will do after graduating with a history degree. We went over career options and she said was interested in political science. She is considering adding this as a double-major but I advised she focused on her current courseload for now. I will be following up with the PolySci department on her behalf.



CANCEL SAVE

Missed Appointment

### Appointment Type

In Person

### Session Topics

Career Path    
 Course Selection

### Note Privacy

Private  
 Shared

Session Note - from Vera Carter  
I'm looking for some guidance on the courses I should take and what kind of career path I could have with my history degree.

Intake Note  
Vera transferred from CS Community College this fall.

# Student Engagement Opportunities

Group by  Opportunities  Individual Students

Sort by Number of Engagement Opportunities (high to low) ▾



**Tyler Casey**  
Economics

4

ENGAGEMENT  
OPPORTUNITIES

Students with a GPA of 2.0 or higher who are less likely to persist

Students with alerts from multiple faculty or staff

Early career students who have withdrawn from a course

New transfer students who have not met with their advisor



**Seth Nguyen**  
Undeclared

4

ENGAGEMENT  
OPPORTUNITIES

Students with a GPA of 2.0 or higher who are less likely to persist

Students with alerts from multiple faculty or staff

Early career students who have withdrawn from a course

First time in college students who have not met with their advisor



**Mattie Williamson**  
Chemistry

4

ENGAGEMENT  
OPPORTUNITIES

Students with a GPA of 2.0 or higher who are less likely to persist

Students with alerts from multiple faculty or staff

Early career students who have withdrawn from a course

First time in college students who have not met with their advisor



**Vera Carter**  
History

3

ENGAGEMENT  
OPPORTUNITIES

Students with a GPA of 2.0 or higher who are less likely to persist

Students with alerts from multiple faculty or staff

New transfer students who have not met with their advisor



**Amy James**



**Wesley Ortega**



**Curtis Simpson**



**Caleb Ortega**  
Psychology

3

Explore courses where:  
 Potential to boost graduation rates is highest

These are the courses where a lift in the average course grade would provide the biggest improvement in institutional graduation rates. Investing resources in these courses first could have powerful results. Courses toward the top have [More](#)



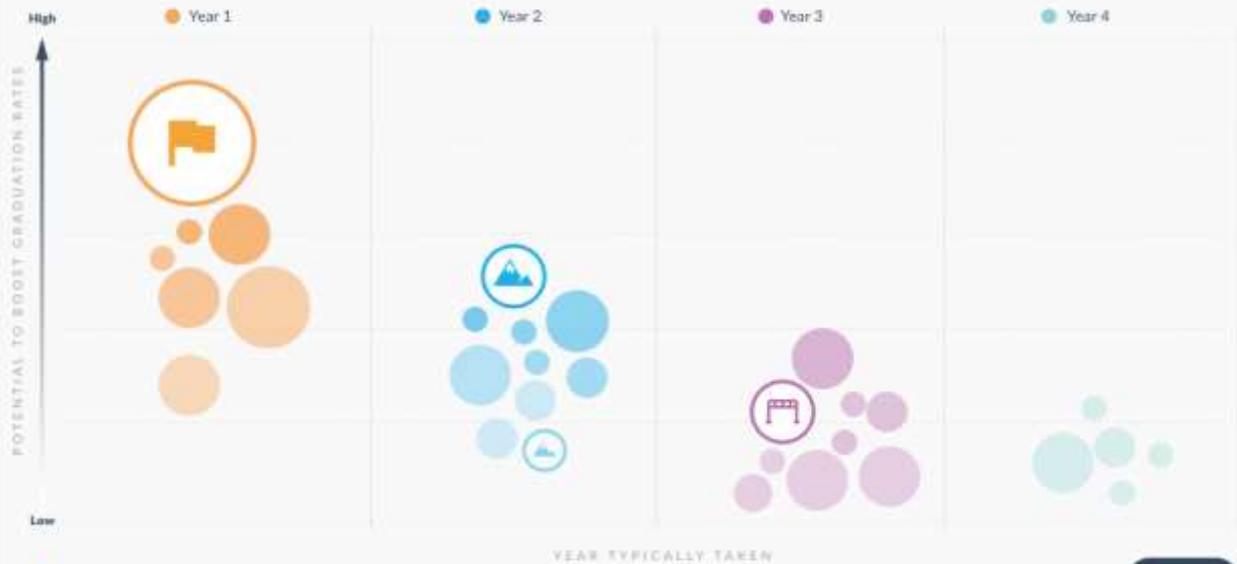
Majors Psychology BS

+ Add Filters

42 of 56 Courses

Bubble Size = All-Time Enrollment

Export Courses



Highest Potential to Boost Graduation Rates

- ENGL-102: Introduction to...
- HIST-100: Introduction to...
- GEN-100: Student Success
- PSYC-101: Language
- SPAN-102: Introduction to...
- ENGL-101: Introduction to...
- PSYC-102: Relationships
- CHEM-120: Introduction to...
- PSYC-103: Society
- CHEM-120: Lab Tech...
- HIST-100: Introduction to...

Powered by Civitas Learning

Help



# OVERVIEW: GRADE SIGNALS

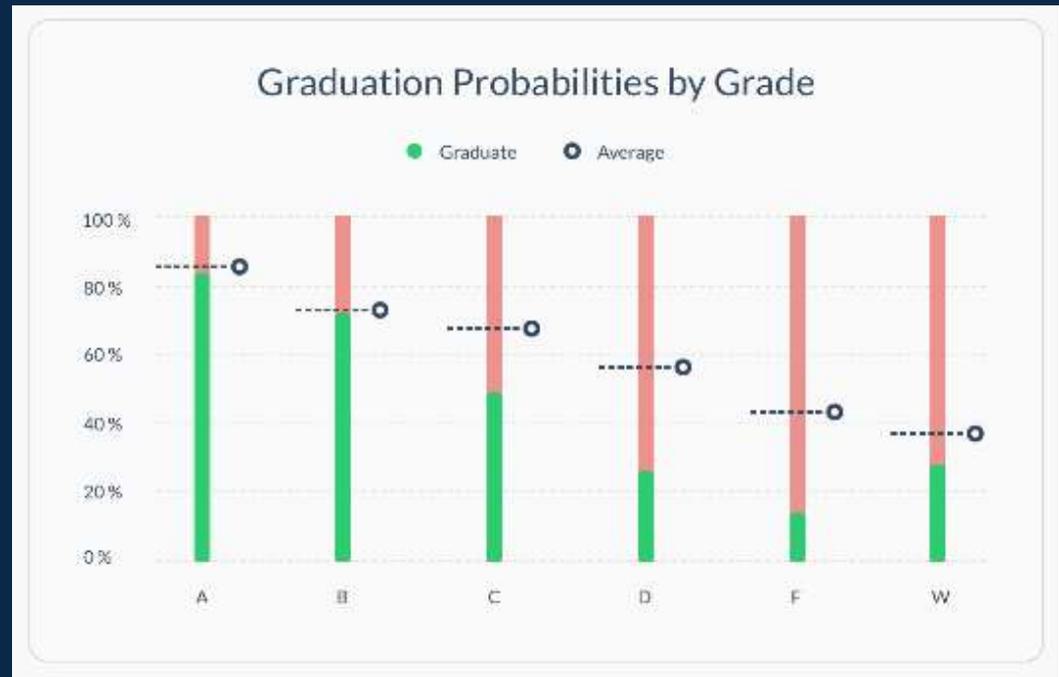


## YELLOW FLAG SIGNAL

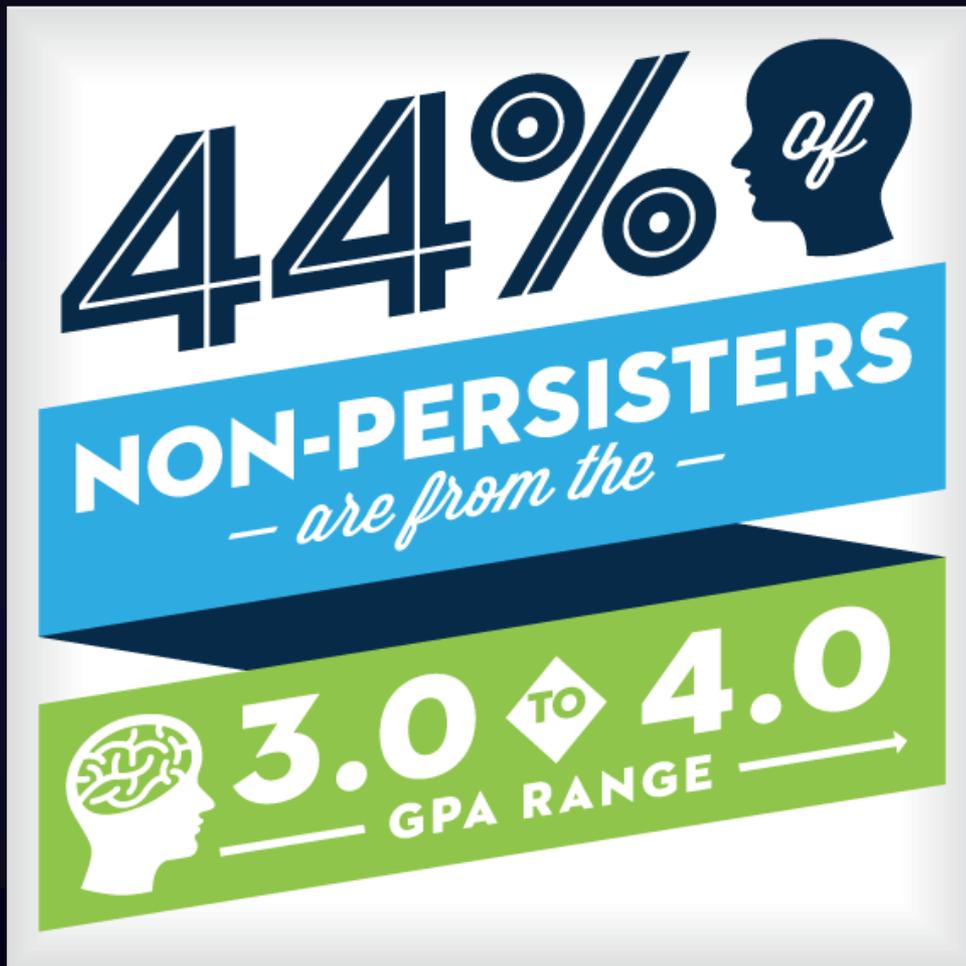
Students who earn “C” in an early term courses tend to persist but not graduate when compared to other courses taken in the same year.

In this English Composition and Rhetoric Course, students that receive a C are 94.4% likely to persist, but are only 52% likely to graduate, compared to an average graduation rate of 70%.

The graduation rate of students with a grade better than a C is 80%.



# Data Science & Learning Pathways



**98% of institutions in this study are losing more students above 2.0 GPA than below it.**

*This benchmark is based on a data set of 4 million students from 62 institutions.*



# LISTENING TO STUDENTS' VOICES4CHANGE

[MARK MILLIRON](#) | [JULY 24, 2018](#) | [UNCATEGORIZED](#) | [ADD REPLY](#)



Last week, we saw the announcement of the [Hope Center for College, Community, and Justice](#), the next generation of the highly successful Wisconsin Hope Lab. The new center, located at Temple University, will continue and deepen the research and innovation aimed at helping striving students succeed in higher

education, even as they are wrestling with serious challenges such as housing insecurity, food insecurity, transportation, childcare and more.

# CAMPAIGN: HIGH GPA, LOW-MODERATE PERSISTENCE

## Outreach Goal

- Come to advising, persistence

## Students Targeted

- Undergraduate, GPA 3.0-4.0 w/ low persistence likelihood

## Outreach Owner

- Illume Working Group pulls student list, creates case for advisors

## Strategy

- Sent before spring midterms

### Sample Email: We're Proud of You!

Hi <student first name>,

I wanted to send you a note to see how your semester is going. College can be challenging this time of year and even the most successful students can struggle. Common challenges for students include job commitments, family responsibilities, financial pressures, transportation issues, or a combination of these and other issues. Do any of these sound familiar to you?

If you are experiencing any of these issues, or other things, I am here to help!

I am proud of your progress and excited to support your continued success.

Sincerely,

<Advisor Name>





20% increase in retention

.....

89% more degrees awarded

.....

60% more graduates



ASU News

# ASU helps more students return after freshman year and thrive during college



STUDENT  
SUCCESS IS  
ABOUT PEOPLE

FEATURING  
CIVITAS LEARNING  
PARTNER INSTITUTIONS

LEARNING

# BRIEF



UNLEASHING WORKING SMARTER & FASTER  
USING ANALYTICS TO BREAK THROUGH PERFORMANCE PLATEAUS

UNIVERSITY OF SOUTH FLORIDA\*

# *Leadership & the Road Ahead*

## **Predictive Analytics in Higher Education**

Five Guiding Practices for Ethical Use

By: Manuela Ekowo, Iris Palmer

*Last updated on March 6th, 2016*



# STUDENT SUCCESS LEADERS MATRIX

*MOVING FROM CRISES TO CLEAR PATH*





New Initiative

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

**45** Currently active initiatives

**4,236** Students in active initiatives

**12** Initiatives with positive lift

Top Initiatives



Terms:

Spring 2012 to Spring 2015



### Writing Center

This is a description of the initiative. This would be the text entered when the initiative is created.



Lift in Persistence

Brief description of the positive or negative lift number to the left.

### Flipped Classroom Pilot

This is a description of the initiative. This would be the text entered when the initiative is created.



Lift in Persistence

Brief description of the positive or negative lift number to the left.

### Math 150A Course Initiative

This is a description of the initiative. This would be the text entered when the initiative is created.



Lift in Persistence

Brief description of the positive or negative lift number to the left.

### Inspire for Faculty Pilot

This is a description of the initiative. This would be the text entered when the initiative is created.



Lift in Persistence

Brief description of the positive or negative lift number to the left.

### Math Tutoring Office Hours

This is a description of the initiative. This would be the text entered when the initiative is created.



Lift in Persistence

Brief description of the positive or negative lift number to the left.

### College Success Course

This is a description of the initiative. This would be the text entered when the initiative is created.



Lift in Persistence

Brief description of the positive or negative lift number to the left.

# IMPACT

*An aggregate analysis of over 1000 initiatives run by 55 unique institutions of varying size and sector has shown the following to date:*

60%

Of analyzed initiatives have a **statistically significant positive** impact

4%

Of analyzed initiatives have a **statistically significant negative** impact

36%

Of analyzed initiatives have **no measurable impact**

2.91%

Average lift for programs with **statistically significant positive** impact

# TOP 5

1. Advising
2. Club Involvement
3. Tutoring: Writing
4. Tutoring/SI
5. Event Attendance



**Advising**  
**5.50%**  
average lift

While advising services demonstrate the highest overall average lift in persistence, analysis shows that this is harder to do well, with only 71% of advising program analyses showing a statistically significant result.



**Club**  
**4.35%**  
average lift

Student participation in clubs, activities and organizations demonstrate the second highest average impact to date and is done well consistently. 100% of club-related analyses showed a statistically significant positive impact.



**Writing**  
**4.02%**  
average lift

Tutoring services focused on writing skills demonstrate the third highest overall average lift in persistence, with 89% of analyses showing a statistically significant result.



# ADJUST

When you have a full understanding of the impact your programs are having, it's time to adjust to get more out of them.

**Optimize**

Adjust by adding resources, or targeting with greater precision.

**Reallocate**

Adjust by reallocating resources to your most impactful programs.

**Redesign**

Adjust by revisiting program goals, content and activities to improve outcomes.





# *Dream Team Making Progress*

Quality & the Learning Mix

Data Science & the Learning Pathway

Leadership & the Road Ahead



### ⚡ ALERTS

- SEVERE THUNDERSTORM WATCH** (+)  
NWS  
Sun 3:47 PM to Sun 11:00 PM
- DANGEROUS THUNDERSTORM ALERT** (+)  
Sun 6:04 PM to Sun 6:49 PM
- DUST STORM WARNING** (+)  
NWS  
Sun 6:05 PM to Sun 6:45 PM
- DUST STORM ADVISORY** (+)  
NWS  
Sun 5:57 PM to Sun 6:30 PM

Compare Business Software

Mapbox

Manage Clients With Ease

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