



*Future-Ready Education: Preparing Students  
for the Challenges of Today and the  
Promise of Tomorrow*



# BIG TOMORROW



Your Key to a More Carefree Visit



## *Future-Ready Focus Areas*

Next-Gen Build Out

Optimizing Learning Mix

Importance of Non-Cog Factors

Data Science and Design Thinking

Future-Ready Learning

# Next-Gen Build Out

## 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



# Next-Gen Build Out

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.

# Next-Gen Build Out



It's your world,  
explore it.



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Now available on [Glass](#)

*"It's a life changer"* - [Today Show](#)

*"Discover something new"* - [Scratch Wireless](#)



# Next-Gen Build Out

POKÉMON



POKÉMON  
GLOBAL LINK



POKÉMON  
GO



# GET UP AND GO

Catch Pokémon in the Real World with Pokémon GO!



WATCH THE POKÉMON GO TRAILER

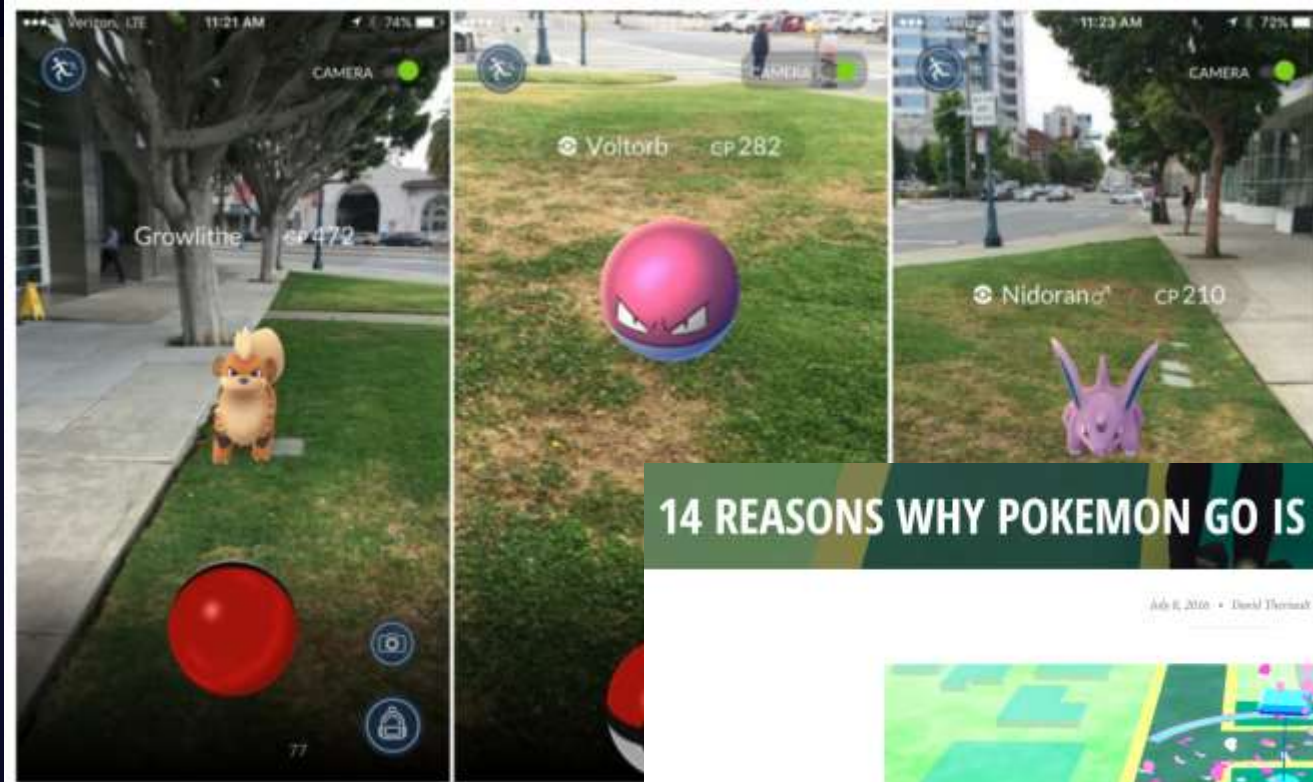


AVAILABLE NOW

Download on the  
App Store

GET IT ON  
Google Play

# Next-Gen Build Out



## 14 REASONS WHY POKEMON GO IS THE FUTURE OF LEARNING

July 8, 2016 • David Thornquist



# Optimizing Learning Mix



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**SCUP** Society for College and University Planning

Membership

Regions

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

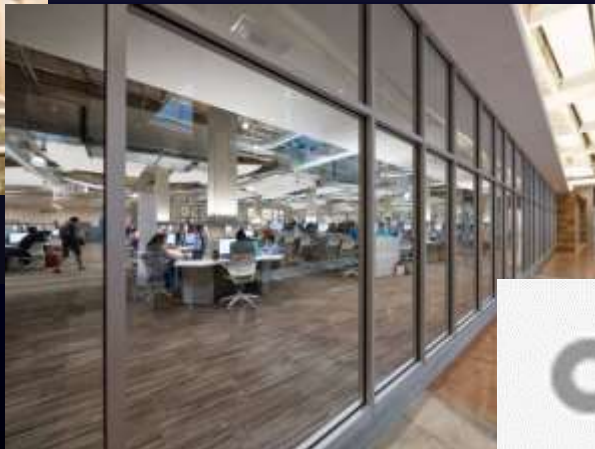
As technologies become ubiquitous, familiar labels will vanish

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



Online learning has expanded dramatically over the past two decades, reaching a high of more than 5 million enrollments in 2013. While that expansion has slowed recently, it still far exceeds overall growth in higher education.

The growth of Penn State World Campus has mirrored this trend, consistently outpacing annual projections. What started as a portfolio of just five online programs and 41



coursera

edX

# Optimizing Learning Mix

OER Commons  
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THE UNIVERSITY OF TEXAS SYSTEM

RWTH AACHEN UNIVERSITY

# Optimizing Learning Mix



**CENTER FOR GAME AND SIMULATION-BASED LEARNING**  
AT EXCELSIOR COLLEGE

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| [Listen To Podcasts](#) | [View Presentations](#) | [Read Papers](#) | [Read Interviews](#) | [Learn About Events](#)

**Dungeons and Discourse Presentation at Excelsior College**

Presentation recorded April 28, 2014. In 2012, Dr. Gerol Petruzella, Coordinator of Academic Technologies at Massachusetts College of Liberal Arts, redeveloped an existing freshman philosophy course into a complete semester-long immersive role-playing game, Dungeons & Discourse. This talk, presented by the Center for Game and



**LEARN LIVE**

NBA All-Star and Former ROTY Damian Lillard is your personal coach and mentor on the journey to becoming an expert NBA LIVE 15 player. Learn how to dominate LIVE like a boss with drills and tutorials wrapped in stories about Lillard's path to the NBA.

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**COMMON SENSE MEDIA LEARNING AWARD 2014**

**SIMCITY edu Pollution Challenge!**

**SimCityEDU Wins ON for Learning Award**  
Try the game to see why Common Sense Media gives it top marks for learning



**EcoMUVE**

Advancing Ecosystems Science Education via Situated Collaborative Learning in Multi-User Virtual Environments

# Optimizing Learning Mix

## 10 Positive Emotions

10. Joy

9. Relief

8. Love

7. Surprise

6. Pride

5. Curiosity

4. Excitement

3. Awe & Wonder

2. Co

1. Cre



# Importance of Non-Cog Factors



- Purpose
- Engagement
- Mindset
- Tenacity

## *Importance of Non-Cog Factors*

THE TWO MOST IMPORTANT  
DAYS IN YOUR LIFE  
ARE THE DAY YOU ARE BORN,  
AND THE DAY YOU FIND OUT WHY  
- MARK TWAIN



# *Importance of Non-Cog Factors*



WESTERN GOVERNORS UNIVERSITY  
TEXAS

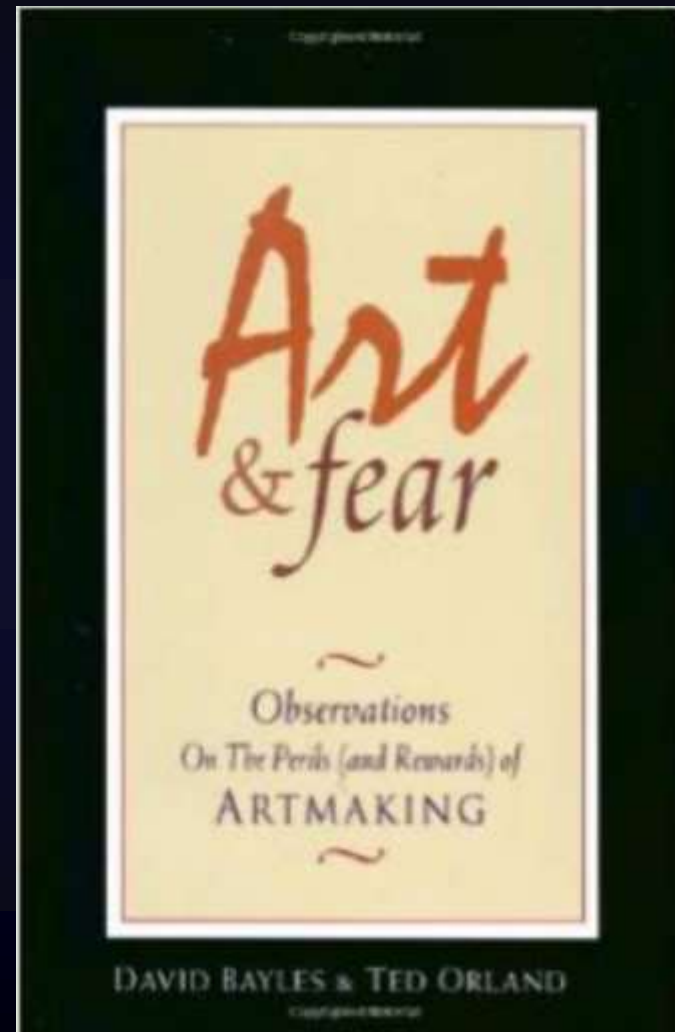
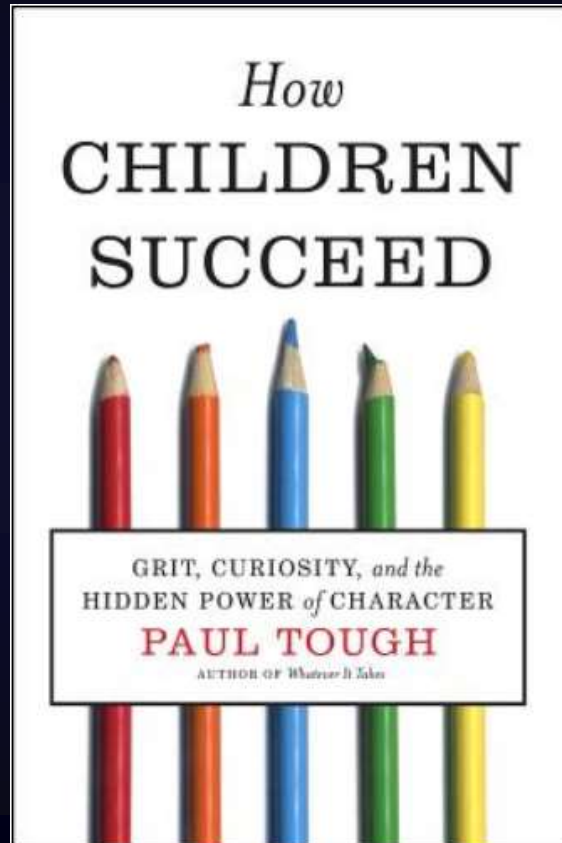
WGU TEXAS

## Texas Two-Step.

1. Work Hard 2. Succeed

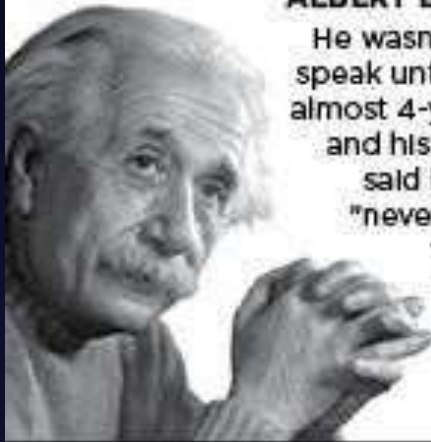
[texas.wgu.edu](http://texas.wgu.edu)

# Importance of Non-Cog Factors



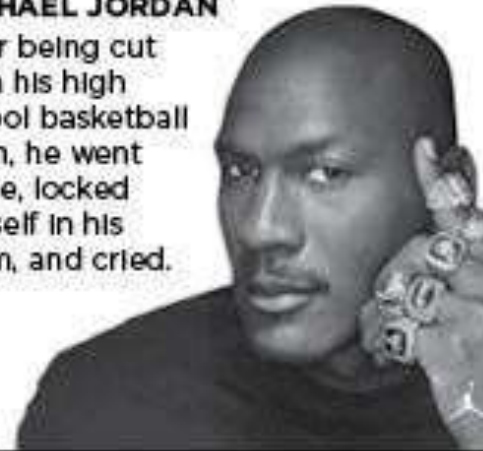
# Importance of Non-Cog Factors

## FAMOUS FAILURES



### ALBERT EINSTEIN

He wasn't able to speak until he was almost 4-years-old and his teachers said he would "never amount to much"



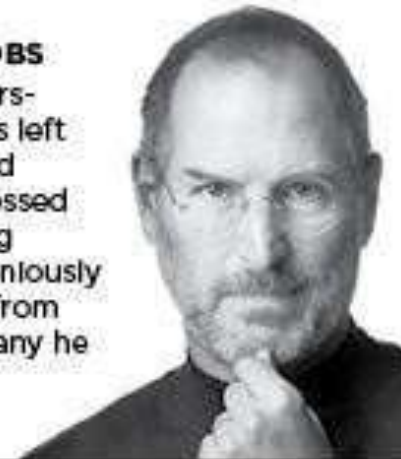
### MICHAEL JORDAN

After being cut from his high school basketball team, he went home, locked himself in his room, and cried.



### WALT DISNEY

Fired from a newspaper for "lacking imagination" and "having no original ideas."



### STEVE JOBS

At 30-years-old he was left devastated and depressed after being unceremoniously removed from the company he started.



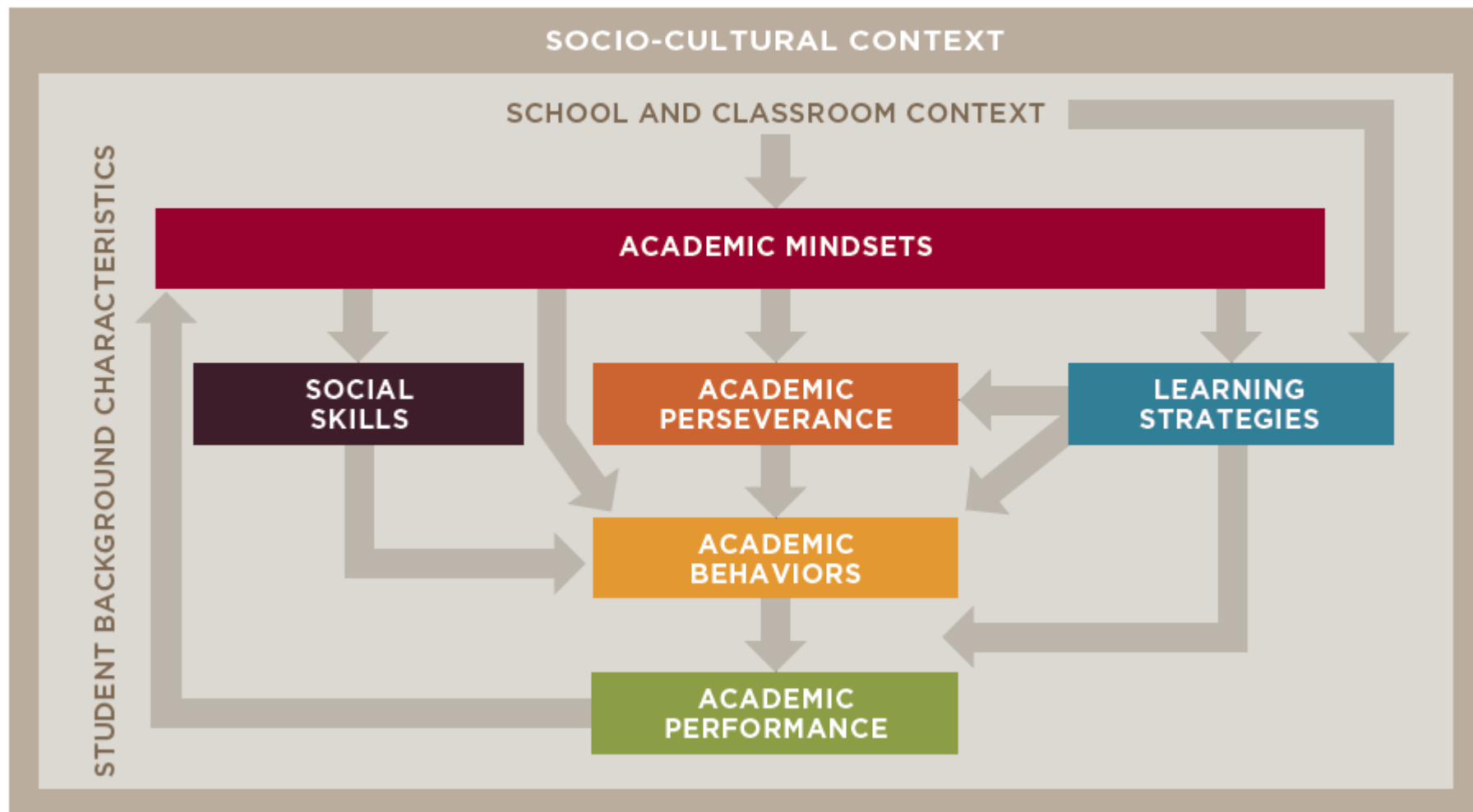
### OPRAH WINFREY

### THE BEATLES



**FIGURE 2.1**

A Hypothesized Model of How Five Noncognitive Factors Affect Academic Performance within a Classroom/School and Larger Socio-Cultural Context

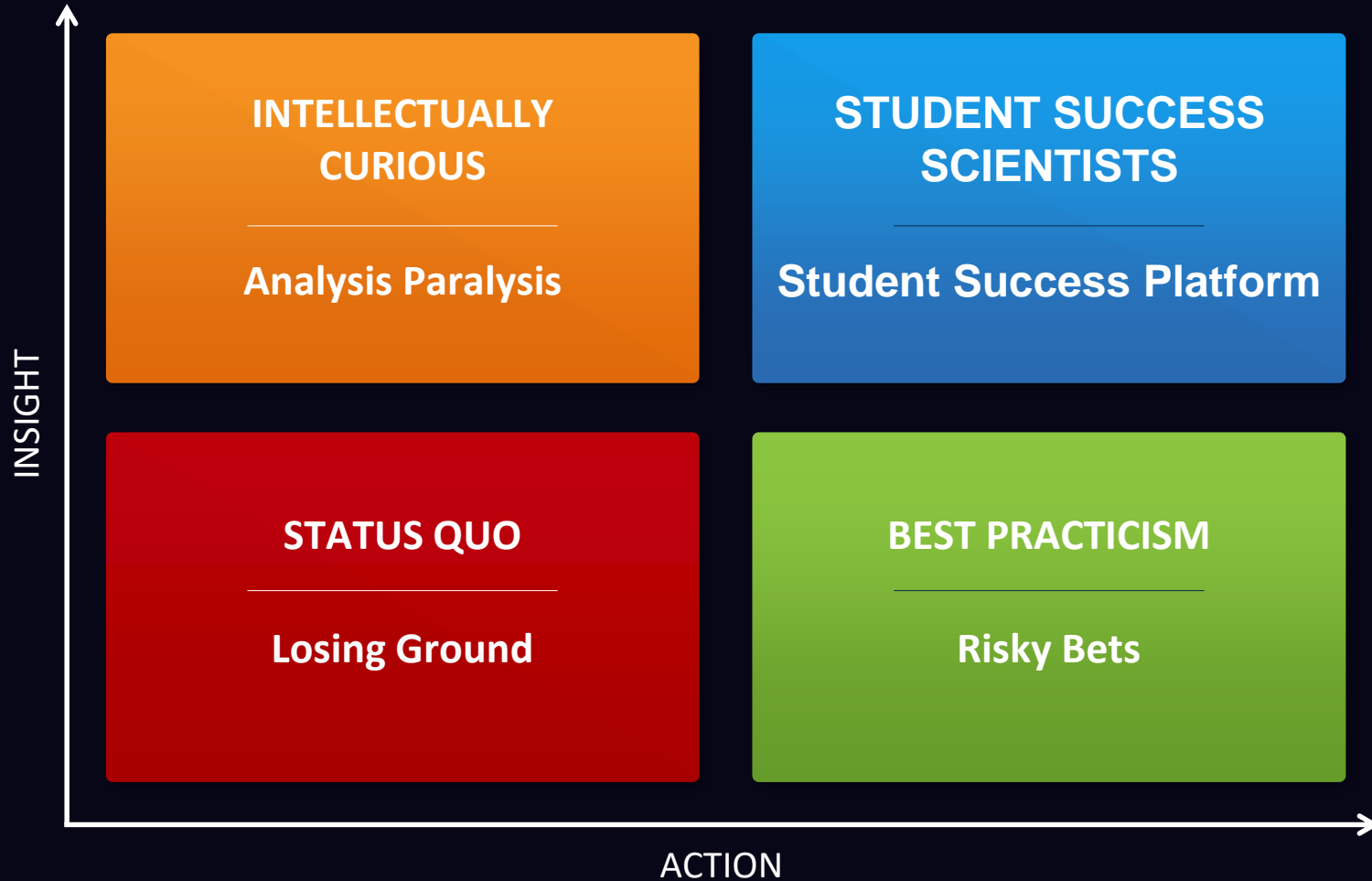


# *Data Science and Design Thinking*



# DATA IMPACT MATRIX

*MOVING UP AND RIGHT*





# Scarlett Jones

CURRENT DEGREE

Psychology AA - Catalog Year 2014

STUDENT ID

123456

EDUCATIONAL GOAL

Transfer

GRADUATION GOAL

Spring 2015

Visualize Degree Progress

Degree Progress



Plan Courses

16 / 32

Planned Credits

Planned / Remaining



Track Degree Planning Progress

Explore Degrees

Explore Degrees

Environment...

AA - Associates of Arts

50%

8-12 Grade L...

AA - Associates of Arts

50%

Government

AA - Associates of Arts

44%



**Scarlett Jones**

0123456

Psychology  
AA - Catalog Year 2014

Advisor  
Amanda McKinney  
(512) 345-9876

Degree Progress



Completed  
Current Credit Hours

15

Registered  
Current Credit Hours

15

# Plan Courses

Spring 2014	+ Summer 2014	+ Fall 2014
MATH 1342 3	BIOL 1406 3	SPAN 1512 4
ENGL 1302 3	SPAN 1511 4	
HIST 1302 3		
HUMA 1301 3		
PSYC 2315 3		
<b>CREDITS 15</b>	<b>CREDITS 16</b>	<b>CREDITS 4</b>

[Expand All](#) | [Collapse All](#)

PLANNED

REQUIREMENT COMPLETION

- Foreign Language ⓘ

0/8

COURSE	GRADE	TERM	PROGRESS
Spanish I ⓘ SPAN 1511		Summer 2014	4
Spanish II ⓘ SPAN 1512		Fall 2014	4





**Scarlett Jones**

0123456

**Psychology**  
AA - Catalog Year 2014

Advisor  
Amanda McKinney  
(512) 345-9876

**Degree Progress**



**Completed** 15  
Current Credit Hours

**Registered** 15  
Current Credit Hours

**Remaining** 32

# Explore Degrees

See Best Match

Select Degrees to Compare

Degrees

Psychology

Environmental Sci...

[Catalog Year: 2013](#)

[Catalog Year: 2013](#)

Visually Compare Progress Toward Each Degree

Completion Percentage



View remaining credits and cost impact

Remaining Tuition Cost

\$3403

\$2407

Completed Requirements

8

10

Registered & Remaining Requirements

11

9

Visual and Performing Arts... 3

Visual and Performing Arts... 3

Humanities Requirement 3

Humanities Requirement 3

Math Requirement 3

Introduction to Environme... 3

History Requirement 3

Economics Requirement 3

# Helping Students Create The Perfect Class Schedule Since 2005

Watch Our Video 

	Monday	Tuesday	Wednesday	Thursday	Friday
8:00am	ACC-111-04		ACC-111-04		
8:30am					
9:00am					
9:30am		MUS-140-03		MUS-140-03	
10:00am					
10:30am					
11:00am					
11:30am					
12:00pm	Sports Practice	Sports Practice	Sports Practice	Sports Practice	
12:30pm					
1:00pm					
1:30pm					
2:00pm					
2:30pm					
3:00pm		MTH-160-11X	HST-201-05	MTH-160-11X	
3:30pm					
4:00pm					
4:30pm					
5:00pm					
5:30pm					





**Scarlett Jones**

ID: 0987654321

Psychology  
AA - Catalog Year 2015

(404) 123-4567

Log Outreach

Send Email

**2.5**

GPA - Cummulative

**1.9**

GPA - Prior

**Undergraduate**

Student Level

**Continuing**

Student Type

**Douglas Smith**

Assigned Advisor

Yesterday - Phone Call  
(Voicemail left)

< Back to Dashboard

**Persistence Probability**



**1.9**

Very Low

**Persistence Change**

**2.2**  
Low  
04/19/2015



Weekly - Last Change: 04/26/2015

**Fall 2016 Enrollment**



Not Enrolled

Scarlett is an **online, undergraduate student.**

**Intervention (10)**

GPA (Prior Term)

First Online Course **NEW**

Average Number of Discussion Board LMS Activities (Weekly) **NEW**

Time Spent in Course Content

LMS Grade Average

Show 5 More

**Inspiration (2)**

Terms Completed

Financial Aid Recipient (Current Term) **NEW**

# Engagement Overview

1 Student



Withdrawals: 0  
Very Low: 8  
Low: 8  
Moderate: 6  
High: 8

## Recommended Outreach

- 6 students have low engagement and have not been contacted recently
- 1 student has low gradeable submissions and low engagement
- 2 students have low grades and comment checks and low engagement
- 4 students have high engagement and a low grade average
- 1 student has low engagement and a low grade average

Filtering 15 of 32 students

### Engagement Score

VERY LOW LOW MODERATE HIGH VERY HIGH

Additional Filter

Email Selected Students

NAME	ENGAGEMENT SCORE	LAST CHANGED	ACTIVE FLAGS	GRADE	LAST OUTREACH
Sam Jones	5	04/09/2016	3	42.0%	03/19/2016
Marcia Daugherty	5	04/10/2016	-	19.8%	-
Kennedy Gay	5	04/11/2016	2	94.5%	-
Brian Richardson	5	04/10/2016	-	9.7%	-

Hi Sam,

I can see that you are really engaged in my course. The effort you are showing is so important for success. You, and others, struggled with the last exam but I know you can do it and I am here to help. Can we schedule a half hour to connect?

Dr. Rees  
Professor of Psychology



## Add Initiative

Have a new initiative you want to add to Illume Impact? Get started here by stepping through our new initiative wizard.

45 Currently active initiatives

4,236 Students in active initiatives

12 Initiatives with positive lift

Most Impactful Initiatives



Terms:

Spring 2012 to Spring 2015



These are the currently active initiatives at your institution that have had the biggest impact (positive or negative) on persistence.

### Writing Center

New student services offering available to any student. Peer mentors and teaching assistants are available on a drop-in basis for questions and advice about writing assignments and related work.



This initiative is showing a positive lift in persistence.

Lift in Persistence

### Flipped Classroom Pilot

New lecture model implemented for select Computer Algorithms course sections taught by full-time faculty with more than 5 years of teaching experience. Lectures are delivered online and class time is devoted for lesson and homework questions.



This initiative is showing a positive lift in persistence.

Lift in Persistence

### Math 150A Course Redesign

Redesign of all Math 150A course sections to better serve the needs of DEV students, who make up most of the Math 150A section enrollments. Goal is to improve persistence as well as successful course completion in both Math 150A and the following math course.



This initiative is showing a positive lift in persistence.

Lift in Persistence

### Inspire for Faculty Pilot

Pilot of Inspire for Faculty. Randomly selected sections of Intro to Online Learning were selected to participate in the pilot.



This initiative is showing a positive lift in persistence.

Lift in Persistence

### College Success Course

Introductory course offered to new incoming freshmen to prepare students for the college experience and improve freshmen persistence and graduation rates. Pass/fail only.



This initiative is showing a positive lift in persistence.

Lift in Persistence

### Math Tutoring Office Hours

Drop-in tutoring for select sections of Math 150, Math 250, and Math 350 courses offered to enrolled students.



This initiative is showing a negative lift in persistence.

Lift in Persistence



TURN ON YOUR  
OWN LIGHTS



DEVELOP TRY AND  
TEST MINDSETS



ACCEPT ANALYTICS  
AS MISSION  
CRITICAL



USE DESIGN  
THINKING ON THE  
FRONT LINES



CATALYZE  
CONVERSATIONS ABOUT  
ANALYTICS



TAKE SYSTEMS & CULTURE  
SYNC SERIOUSLY



LEAD IN THE AGE  
OF ANALYTICS



# Future-Ready Learning

The screenshot displays the Lumina Foundation website interface. At the top, a navigation bar includes links for 'WHO WE ARE', 'WHAT WE DO' (highlighted), and 'HOW WE WORK'. A search bar and 'Languages' link are also present. Below this is a secondary navigation bar with icons for 'OUR WORK', 'NEWS & EVENTS', 'CEO CORNER', 'RESOURCES', 'CONTACT US', and 'ABOUT'. The main content area features a featured article titled 'THE KRESGE FOUNDATION' with the sub-headline 'Affordable Education' and the text 'Expanding opportunities in America's cities'. A 'LEARN' button is visible to the right of the article. On the left side, a sidebar menu lists 'GENERAL INFORMATION' (with sub-items like 'Strategy Overview', 'Partners', 'Strategy Leadership') and 'RESOURCES' (with sub-item 'Press Releases (72)').



# Future-Ready Learning

## That 'Useless' Liberal Arts Degree Has Become Tech's Hottest Ticket

*This story appears in the August 17, 2015 issue of Forbes.*

[\\* Comment Now](#) [\\* Follow Comments](#)

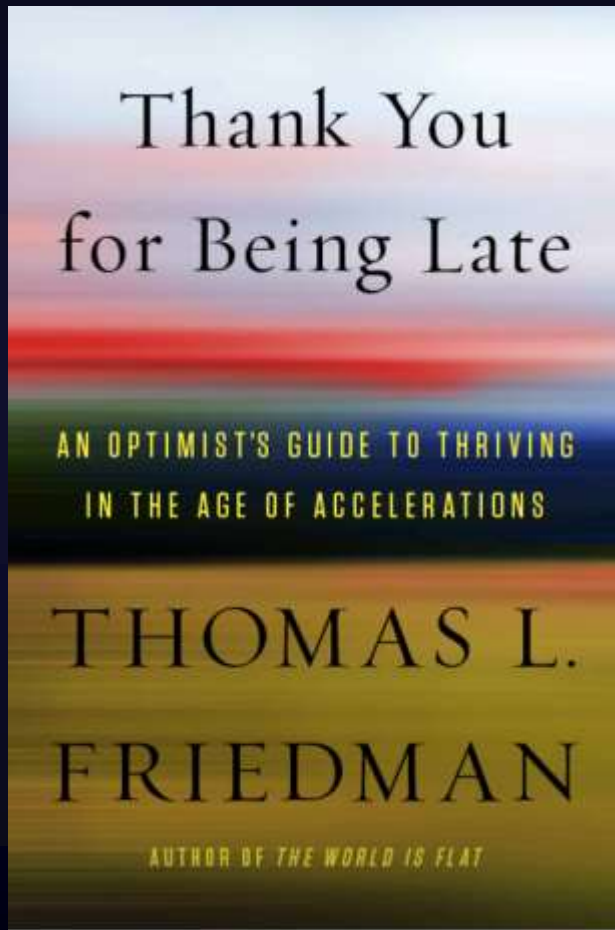


*Slack CEO Stewart Butterfield (Photo credit: Carlo Ricci for Forbes)*

- **Critical Learning**
- **Creative Learning**
- **Social Learning**
- **Accelerated Learning**
- **Courageous Learning**



# Future-Ready Learning



*“... it is easier than ever to be a maker (try 3-D printing) or a breaker (the Islamic State excels at using Twitter) but harder than ever to be a leader or merely average.”*



## *Future-Ready Focus Areas*

Next-Gen Build Out

Optimizing Learning Mix

Importance of Non-Cog Factors

Data Science and Design Thinking

Future-Ready Learning

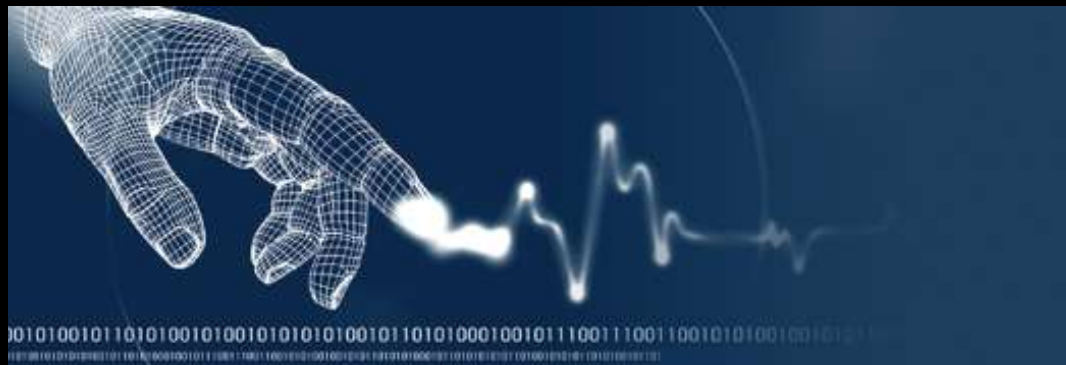
**MARK DAVID MILLIRON**

**WWW.MARKMILLIRON.COM**

**@MARKMILLIRON**

**MARK.MILLIRON@CIVITASLEARNING.COM**

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**Making the Most of a Healthy Change in  
Education: The Emerging Student Success  
Platform**

**A new white paper from Dr. Mark Milliron, Co-Founder  
and Chief Learning Officer, Civitas Learning**