

IT and Education: Game Changers

Diana G. Oblinger, Ph.D.
President and CEO, EDUCAUSE

E D U C A U S E

Topics

- Context
 - Education trends
 - Rethinking the rules
- Emerging models
 - Do it yourself
 - Student empowerment
 - Tools of the discipline
 - New value chains
 - Inside the “black box”

Education Trends

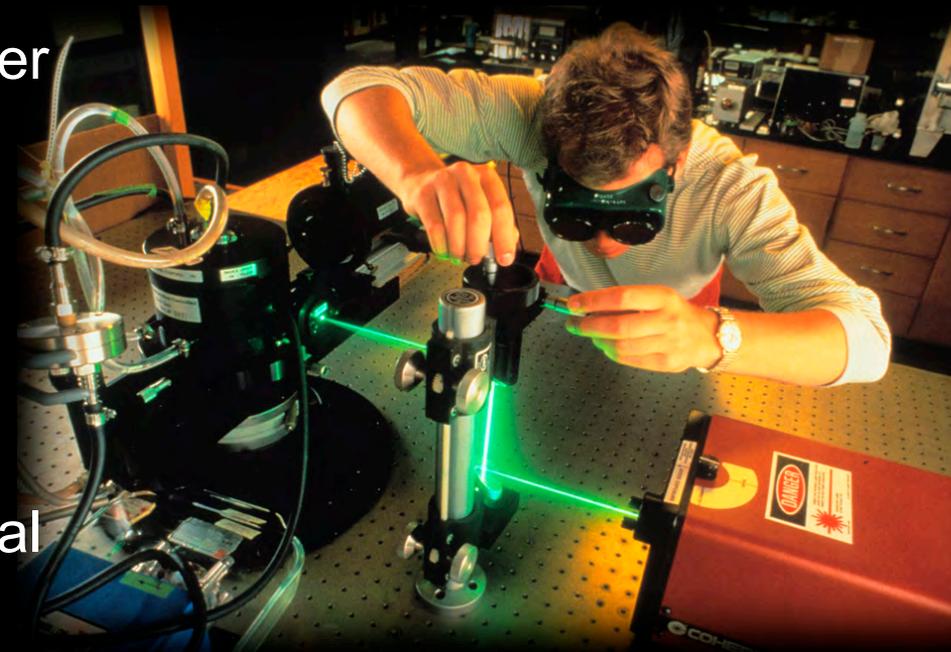
Educational imperative

- Intellectual and human capital paramount
- Worldwide demand for well-educated workers
- Benefits health, civic engagement society
- Decline of the “traditional” student
- Post-secondary education is the new baseline



Unsettled environment

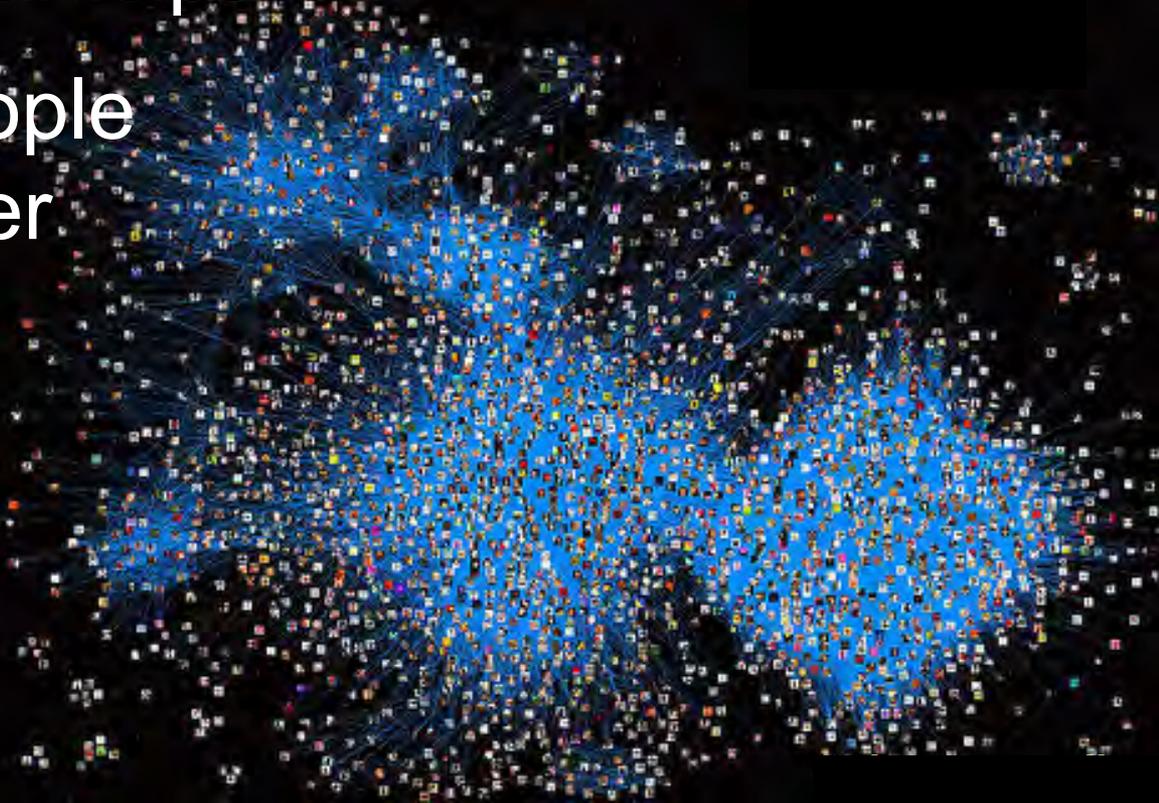
- Challenging economic environment
- Threat of regulation
 - Cap on tuition
 - Performance-based funding
 - Program elimination
- External forces
 - Governors launching charter universities
 - Philanthropists supporting new institutions
 - Non-traditional students opting for for-profit institutions or non-traditional certifications



Rethinking the Rules

The connected age

- Everything (and everyone) is interconnected
- Individuals are empowered with information
- Everyone can participate
- It is easy for people to find each other



Do-it-yourself learning

- Digitized and indexed books (28 million volumes)
- Data, archives, media
- Content, exercises
- Peer-to-peer support
- Communities



Web [Images](#) [Video](#) [News](#) [Maps](#) [more »](#)

Google Search

I'm Feeling Lucky

home about the archive exhibits & objects search engine bibliography nines

the complete writings and pictures of
Dante Gabriel Rossetti
a hypermedia archive

THE Rossetti Archive facilitates the scholarly study of **Dante Gabriel Rossetti**, the painter, designer, writer, and translator who was, according to both John Ruskin and Walter Pater, the most important and original artistic force in the second half of the nineteenth century in Great Britain. In Whistler's famous comment, "He was a king".

When completed in 2008, the Archive will provide students and scholars with access to all of DGR's pictorial and textual works and to a large contextual corpus of materials, most drawn from the period when DGR's work first appeared and established its reputation (approximately 1848-1920), but some stretching back to the 14th-century sources of his Italian translations. All documents are encoded for structured search and analysis. The Rossetti Archive aims to include high-quality digital images of every surviving documentary state of DGR's works: all the manuscripts, proofs, and original editions, as well as the drawings, paintings, and designs of various kinds, including his collaborative photographic and craft works.

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To access the iTunes U samples you need to have downloaded and installed iTunes. Click on the following link if you need to download , iTunes. For further information and free course content access **OpenLearn**.

New and Featured Content

Creative Writing
Advanced creative writing develops your writing ability by widening your generic range and developing your knowledge of style. You'll explore how some of these scriptwriting skills might enhance your prose style, improve your writing skills across the range of forms, and further develop your individual writing style and voice.

This material forms part of the course A363, Creative Writing

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The Open University

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Saving Britain's Past
Saving Britain's Past, Mondays at 7.30pm. Starts 24th August, 8PM. What would you save? The Open University would like to encourage viewers to join them in mapping the nation's contemporary heritage. Why not participate by visiting open2.net/save/... [More Info](#)

Yoseph Araya - My heritage...
Open2net - 105 views

Garry Slapper - My Heritage
Open2net - 79 views

Everyone can participate

- Innovation is “outsourced” to the community
- Community members respond to challenges
 - Minimizing water used for cleaning, sanitizing
 - Making packaging material more recyclable
- Sponsored by Global 5000 companies and non-profits
- Pay-for-performance (e.g., prize of \$50,000)
- Expands innovation capacity beyond internal R&D teams



innovationexchange

WHERE CREATIVITY IS THE CURRENCY

MINIMIZE THE WATER USED FOR CLEANING AND SANITIZING



Maximum \$55,000 USD

While the world's population tripled in the 20th century, water resources has grown six-fold. Within the next fifty years, the world's population will increase by another 40 to 50 %. This population growth, along with industrialization and urbanization - will result in an increased demand for water and will have serious consequences on the environment.

Personalization due to “big data”

amazon.com

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Here's a daily sample of items recommended for you. [Click here to see all recommendations.](#)

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LOOK INSIDE!

Daniel H. Pink

DRIVE

The Surprising Truth About What Motivates Us

[Drive: The Surprising Truth About What Motivates Us](#) (Hardcover) by Daniel H. Pink

★★★★☆ (198) \$16.22

[Fix this recommendation](#)

LOOK INSIDE!



[Cutting for Stone](#) (Paperback) by Abraham Verghese

★★★★☆ (645) \$8.67

[Fix this recommendation](#)

LOOK INSIDE!



[The Girl with the Dragon Tattoo](#) (Perfect Paperback) by Stieg Larsson

★★★★☆ (2,570) \$5.47

[Fix this recommendation](#)



[Midsomer Murders: Set 16 DVD](#) ~ John Nettles

★★★★☆ (40) \$38.49

[Fix this recommendation](#)

New For You[®]

Page 1 of 13

[Tap into Your Friends](#)

LOOK INSIDE!

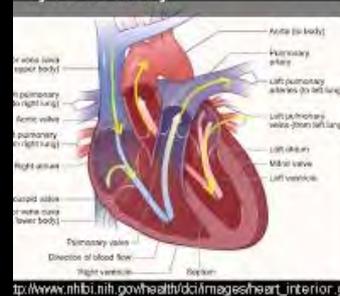
BETA

Do-It-Yourself

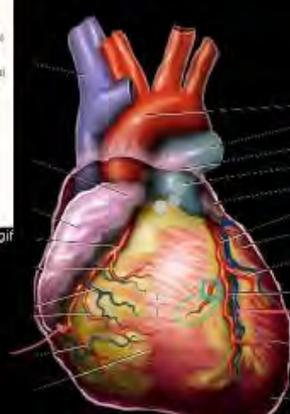
Self-service learning

- “Learn almost anything for free”
- Khan Academy
 - 5 million unique users (in March 2012)
 - 3,000 videos
 - 150 million lessons delivered online
 - 400 million exercises completed
 - Analytics engine
- Translating into 12 languages

Heart Disease and Heart Attacks
by KhanAcademy

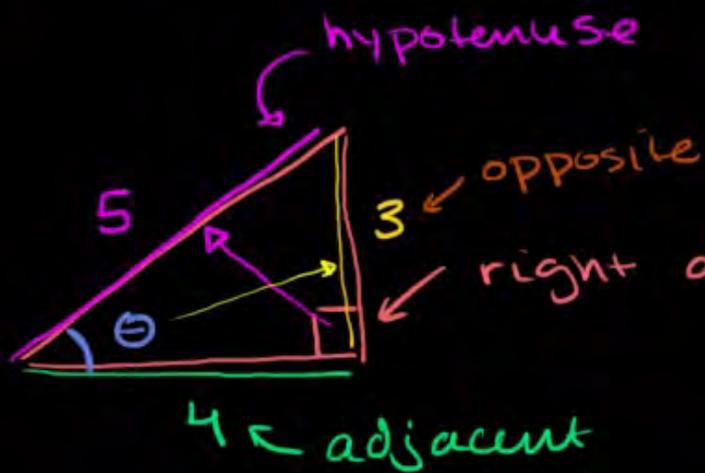


http://www.nlm.nih.gov/health/doiimages/heart_interior.gif

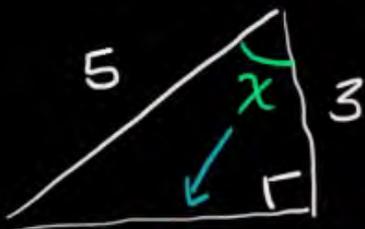


Coronary Artery Disease

Trigonometry



$$3^2 + 4^2 = 5^2$$



$$4 \leftarrow \text{opposite}$$

sin cos tan

Soh Cah Toa

$$\sin = \frac{\text{OPP}}{\text{HYP}}$$

$$\cos = \frac{\text{ADJ}}{\text{HYP}}$$

tan

$$\sin \theta = \frac{3}{5}$$

$$\cos \theta = \frac{4}{5} \quad \text{tan}$$

$$\sin x = \frac{4}{5}$$

Adaptive

- Knewton Math Readiness
- Allows students to go at own pace
- Personalized
- Short videos; explanations
- Test skills
- Points and badges encourage completion
- Faculty access to class or individual student trends

Ratio & proportions • Ratio and fractions

Introduction

CLASS NOTES



You know that $\frac{3}{4}$ of an orange contains $\frac{3}{4}$ of your daily value of vitamin C, and you want to know how much of your daily value one entire orange contains.

Ratio redux: Ratios and fractions
with David I.

Next >

-OR-

Test your skills

Ratio & proportions • Ratio and fractions

Test your skills

You got +160 points! **Next >**

You got 12 correct of 20 questions.

Explanations

• Previous | Next

Subject badge! You rule.

QUESTION 1 OF 20

$$\frac{3}{15} : \frac{6}{5} = \frac{3}{5}$$

Step-by-Step Solution:

Step 1: Set up a table of equivalent ratios.

3/15	3/5
------	-----

GRADEBOOK

STUDY GROUPS

oil

PRINT PAGE

STUDENT NAME	PROGRESS	PERFORMANCE
Nepem, Jess	On-track 96% completed	83% Average test score
McQuham, Brad	On-track 100% completed	100% Average test score
Brinnen, Cole	On-track 94% completed	100% Average test score
Haim, Greg	Off-track 20% completed	96% Average test score
Ho, Chris	Off-track 22% completed	100% Average test score
Michnikov, Cassie	Off-track 2% completed	77% Average test score

MOOCs

- Massive scale
- Self-organized study and discussion groups
- Data collection may change pedagogy
- Emerging revenue models
- Brand extension
- A global university?

Udacity

coursera

udemy

edX

Student Empowerment

OpenStudy

- Ask questions
- Give help
- Connect with others anywhere in the world
- Earn badges for helpful answers

The screenshot shows the OpenStudy website interface. At the top left is the OpenStudy logo, which includes a blue cat icon. The main heading reads "Make the World Your Study Group" with the tagline "Get live help from other students. Be a hero to your peers." Below this is a grid of study group cards. Each card features an icon, the subject name, the number of students, the number of students online, and a "Study Now" button. The groups listed are: Mathematics (21113 Students, 68 Online), Writing (3555 Students, 6 Online), Finance (2056 Students, 2 Online), Computer Science (5493 Students, 1 Online), Physics (3350 Students, 7 Online), History (1498 Students, 2 Online), Biology (1969 Students, 4 Online), and OpenStudy Feed (1987 Students). At the bottom right of the grid is a "View All Groups" link. Below the grid, it states "OpenStudy is being used by:" followed by logos for MIT OPENCOURSEWARE (Massachusetts Institute of Technology) and FAST COMPANY.

open study

Make the World Your Study Group

Get live help from other students. Be a hero to your peers.

Subject	Students	Online	Action
Mathematics	21113	68	Study Now
Writing	3555	6	Study Now
Finance	2056	2	Study Now
Computer Science	5493	1	Study Now
Physics	3350	7	Study Now
History	1498	2	Study Now
Biology	1969	4	Study Now
OpenStudy Feed	1987	0	Study Now

[View All Groups](#)

OpenStudy is being used by:

MIT OPENCOURSEWARE
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

FAST COMPANY

Demystifying education

- Personal recommendations tailored to
 - Program of study
 - Abilities
- Keyed to degree program and course sequencing, not “liking”
- Deans use to target course availability
- Faculty use to target interventions
- Degree Compass

Courses To Consider

Course Suggestions for You from **THE GOV**:



You may not need to take all of the courses listed to graduate but each of the courses listed satisfies one of your degree requirements. When several courses might satisfy a degree requirement, the rating and projected grade may be helpful in selecting which course to choose. Please consult your Advisor or degree evaluation for specific program requirements.

PM3230 - Public Personnel Admin	★★★★★	View Sections
HIST1220 - World History II	★★★★★	View Sections
PM3180 - Criminal Procedures	★★★★★	View Sections
PM3760 - Methods of Research	★★★★★	View Sections
CRJ3020 - Criminal Evidence Procedure	★★★★★	View Sections
CRJ3410 - Domestic Terrorism	★★★★★	View Sections
CRJ4000 - Law Enforcement Admin	★★★★☆	View Sections
CRJ3420 - International Terrorism	★★★★☆	View Sections
CRJ3430 - Management of Incidents	★★★★☆	View Sections

Filter:

These suggestions are courses in which other students similar to you have made successful progress in your program of study. You should always consult your advisor when planning your schedule. [What is this? Feedback](#)

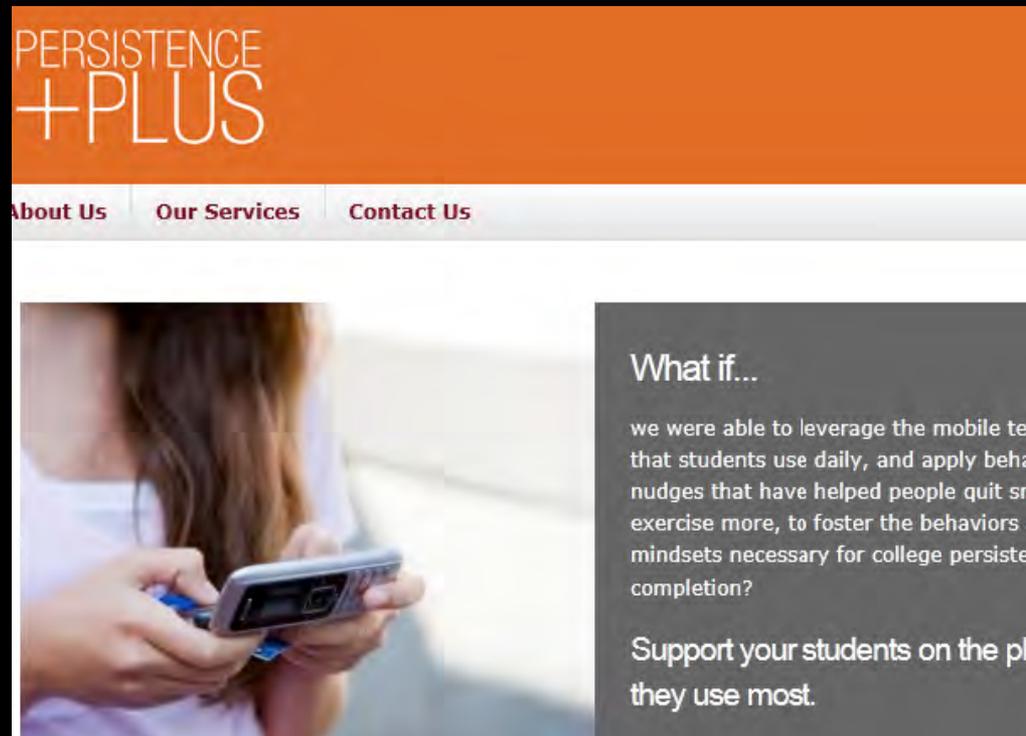
STAR

- Cross-institutional online advising/degree attainment support system (10 campuses of University of Hawaii)
- Real-time “academic journey system”
 - Course choices and effect of choices on degree program
 - Courses from other campuses that meet degree requirements
 - Lets advisors know which students are off-track
 - Increases transfers from community colleges to 4-year programs
 - Automatically transfers credits from 4-year institution back to community college
- Decreased time to graduation and increased graduation rate reducing cost on student, state and support programs



Nudges

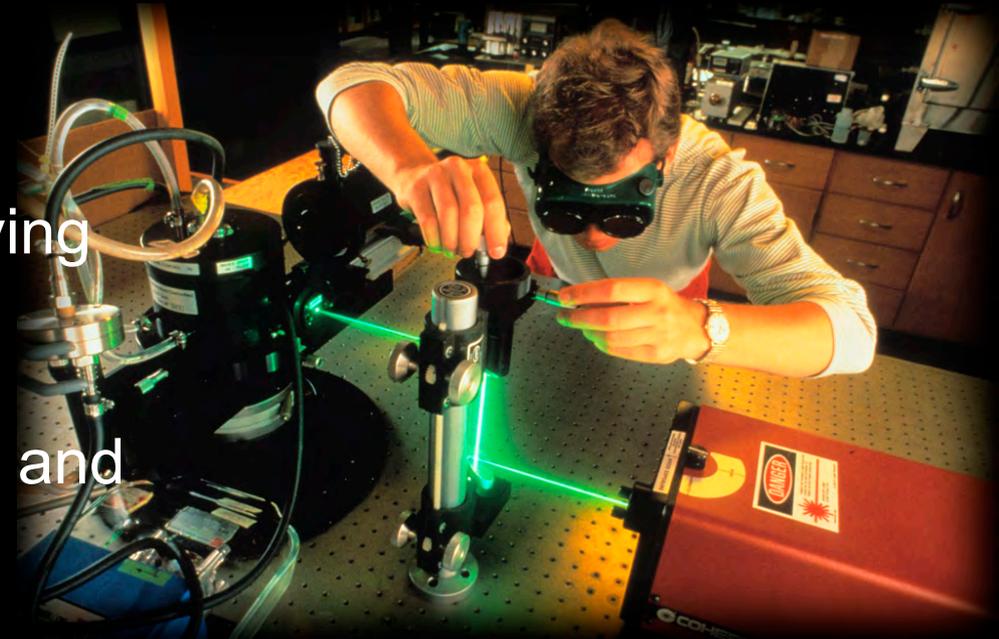
- “Weight-watchers” of college completion
- Behavior interventions, “nudges”
 - Study skills
 - How to deal with academic setbacks
 - Organize time and responsibilities
- Positive peer academic pressure
- Data identifies students who need active outreach



Tools of the Profession

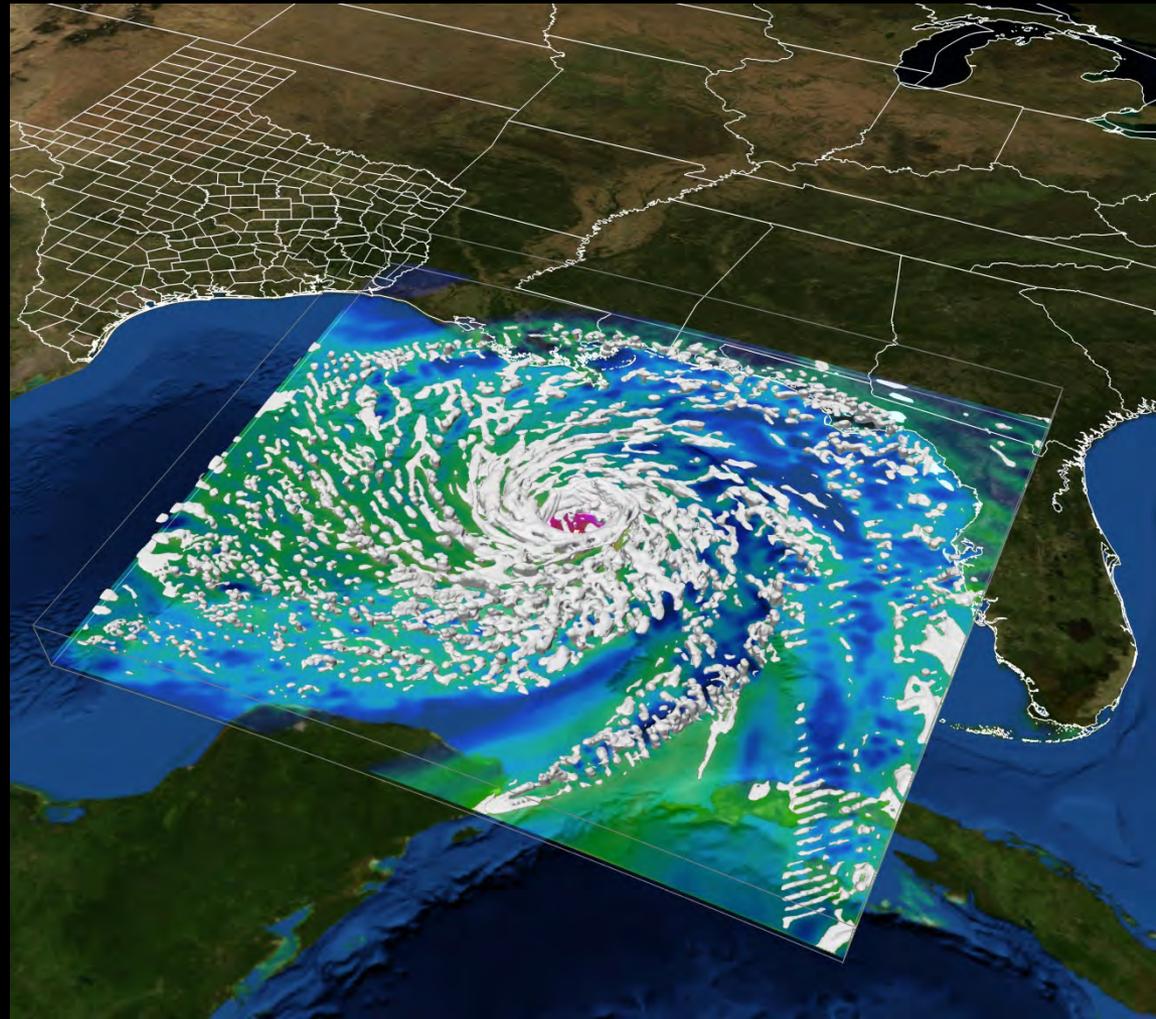
Undergraduate research

- An inquiry or investigation conducted by an undergraduate student that makes an original intellectual or creative contribution to the discipline
- A “high-impact” practice
- Within their research discipline, students demonstrate improved:
 - Oral and written communication skills
 - Creativity, problem-solving and troubleshooting
 - Understanding of how knowledge is generated and validated



Complex analysis

- Big data
- Analysis; modeling
- Visualization
- Decision-making



Learn to do what you do

- SimSchool
- Classroom management techniques
- Analyze student data
- Understand diverse learning styles



New Value Chains

Value chain to value web



Putting data to work

- Share transcripts
- Predict where you might be accepted for college
- How to improve odds of acceptance (e.g., take calculus)
- Eventually businesses may use credentials in hiring

Parchment.com is the easy and secure way to manage your transcript credentials online.

[Sign Up](#)

Share



Deliver your transcript to any destination worldwide

Analyze



Learn where your credentials can take you

Promote



Be discovered by institutions looking for learners like you

Order Your Transcript



[Get Started](#)

We have thousands of schools on our Docufile network who support 24/7 ordering of print and electronic transcripts through Parchment.com

[Create your Parchment Page](#)

Course providers

- \$99/month (+ \$39/course) or \$999/year for 10 courses
- Required college courses
- Start any time; no required meeting times
- Individualized, on-demand support (online)
- Transfer credits to partner college(s)



[Introductory Algebra](#), [College Algebra](#), [Precalculus](#), [Business Statistics](#), [Developmental Writing](#), [English Composition I](#), [English Composition II](#), [Economics I](#), [Economics II](#), [Accounting I](#) and [Accounting II](#)

NEW! StraighterLine for \$99

The Shortest Distance Between You and Your College Degree

 Program Costs:
Compare To Other Programs

COMPARE College Algebra	Private 4- -year College*	Public 4- -year College*	University of Phoenix**	College Network**	StraighterLine
Tuition and Fees	\$2600	\$700	\$1482	\$500	\$399
Flexible Start/Stop?	No	No	No	Yes	Yes
On-demand Instruction?	Maybe	Maybe	No	No	Yes
On-demand Course Availability?	No	No	No	Yes	Yes
Real College Credits	Yes	Yes	Yes	No	Yes

Joint ventures

- Increasing number of public-private joint ventures
- Augment existing skills, resources
- 2tor: online platform to expand graduate programs
 - Technology and infrastructure
 - Fieldwork sites
 - Creates instructional material with faculty
 - Capital investment
- Shares tuition revenue



University of Southern California

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Master of Arts in Teaching
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ABOUT ADMISSIONS ACADEMICS BLOG STUDENT

A RENOWNED School of Education
An ACCLAIMED Master of Arts in Teaching
A TRAILBLAZING Online Platform

LEARN MORE ABOUT THE MAT@USC >

1 2 3 4 5

REQUEST INFORMATION Which best describes you?
I want to become a teacher

NEXT

Study support

- Tutoring and mentoring
- Available on demand, 24x7
- Matches mentors and mentees; flexible scheduling
- Shared live experiences; whiteboarding

The screenshot shows a 'User Management' page for 'YourLogo'. The main content area displays the 'USER PROFILE' for 'Mark Stutzman'. On the left, under 'USER DETAILS', there is a profile picture and a list of fields: NAME, USER TYPE, EMAIL, PHONE, PARENT/GUARDIAN, PARENT EMAIL, PARENT PHONE, PARTNER SITE: ADDR, PARTNER ADMIN, MEMBER ADMIN, USER SINCE, RATING, USER STATUS, and MATCH STATUS. On the right, under 'POTENTIAL MATCHES', there is a grid of six smaller profile pictures, each with associated user details like USERNAME, SOM, and RATING. At the bottom, there is a 'NOTES' section with a timestamp and some text.

The screenshot shows a web browser window with the URL 'http://www.smarthinking.com/'. The browser's address bar and navigation buttons are visible. The page content includes a blue header with the text 'SMARTHINKING.COM - Online tutoring and writing services that help students succeed - Windows I...'. Below the header, there is a navigation menu with items like 'File', 'Edit', 'View', 'Favorites', 'Tools', and 'Help'. The main content area features a login form with fields for 'Email' and 'Password', and a 'Login' button. There is also a link for 'Forgot your password?'. The page is decorated with various icons and a '2007 SIAA //CODIE// WINNER' badge.

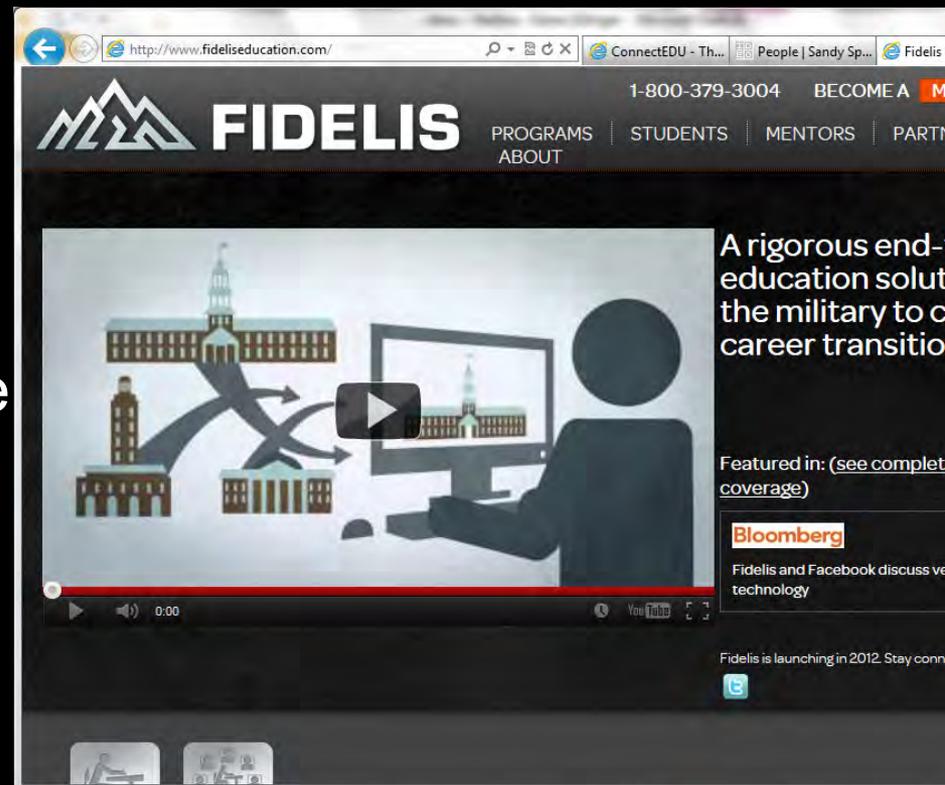


The screenshot shows the homepage of TutorVista.com. The top navigation bar includes links for 'Home', 'How It Works', 'Online Tutoring', and 'Assignment Help'. The main content area is divided into several sections. On the left, there is a section titled 'World Class Online Tutoring, Just A Click Away.' with a sub-headline 'An interactive way to learn.' and a description of the service. Below this is a 'Buy Now!' button. In the center, there is a large image of a woman wearing headphones and sitting at a desk with a laptop. To the right of the image, there is a yellow box with the text 'Need Homework or Assignment Help? Hundreds of Tutors are ready to Help!'. Below this, there is a list of subjects: 'K-12 and college students - get homework help, assignment help and essay help, 24x7!', 'Get help via email for assignments on:', and a list of subjects: 'Math', 'English', 'Physics', 'Chemistry', 'Biology', and 'Science'. At the bottom right, there is a '24/7 Support' button.

The screenshot shows the homepage of Smarthinking.com. The top navigation bar includes links for '& Services', 'Our Tutors', 'Partners', 'Sample Tutorials', 'Customer Support', and 'Contact Us'. The main content area features a large image of a woman with curly hair sitting at a desk with a laptop. To the left of the image, there is a section titled 'and writing services that help students succeed'. Below this, there is a section titled 'About SMARTHINKING' with a sub-headline 'Our site is excellent. I am blown away personal feedback I have received. I can only pray that this site (in active will have) will be here in 12 school.' and a link for 'View more comments or write your own...'. Below this, there is a section titled 'G News' with a sub-headline '2 Millionth Online' and a link for 'More SMARTHINKING news...'. At the bottom, there are three columns with the following titles: 'Universities', 'Schools & Libraries', and 'Individuals'. Each column has a small image of a person.

Pathways from military to career

- Designed for veterans
 - Veteran unemployment 20%
 - Veteran under-employment 50%
 - 75% of veterans who begin college don't graduate
- Online coaching platform
- Partner with universities, veterans organizations, corporations
- Hybrid and F2F experience
- Transition coaching
- Mentoring
- Gamification; badges



Badges: Credit decoupled from courses

- Learning happens everywhere, not just classroom
- Recognition for skills and achievements
- Earn and display badges on the web
- Skills and experience can come from
 - Online courses
 - Peer learning
 - Volunteering
 - After-school work



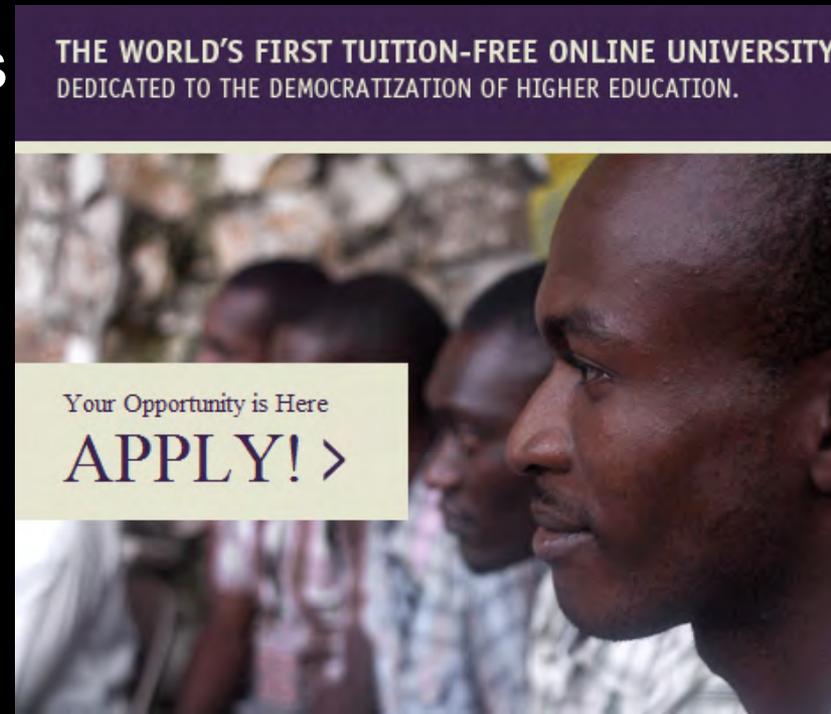
Redefining roles

- Credit for prior learning; competencies developed with industry experts
- Objective and performance-based assessment of competencies
- WGU faculty identify best existing courses; acquire rights to use them
- Faculty serve as mentors, also peer mentoring
- Accelerated degree options
- 30% growth rate

The screenshot shows the Western Governors University (WGU) website. At the top left is the WGU logo with the text 'WESTERN GOVERNORS UNIVERSITY' and 'ONLINE. ACCELERATED. AFFORDABLE. ACCREDITED.' To the right are buttons for 'REQUEST INFO' and 'APPLY NOW'. Below the navigation bar is a large banner featuring a smiling male graduate in a cap and gown. To the right of the graduate are three smaller images with text: 'TEACHERS COLLEGE NCATE Accredited!', 'COLLEGE OF BUSINESS', and 'COLLEGE OF INFORMATION TECHNOLOGY'. Below the banner is a section titled 'WGU is an accredited online university offering online bachelor's and master's degree programs.' followed by a list of bullet points: 'Respected online degrees. Earn a degree employers value.', 'Flexible, online study. You learn when and where it fits your life.', 'Affordable, lower tuition. WGU is a nonprofit online university.', 'Benefit from your experience. Accelerate your time to complete your degree online.', and 'Employers consistently give our graduates high marks.' To the right of this text is a small image of a WGU building. Further right is a 'WGU NEWS' section with a list of news items: 'WGU President Testifies at Senate Hearing on Making College Affordable', 'New Online IT Master's Degree Program Emphasizes Network Management', 'WGU Featured on National Public Radio', 'WGU Featured in The New York Times', and 'CNN Spotlights WGU'. Below the news items is a button 'VISIT THE WGU NEWSROOM'. On the far right, a 'GRADUATE SU...' section is partially visible, showing text about WGU graduates and employers.

Free, open and peer-led

- University of the People
- Tuition-free online university
- For students with financial, geographic, societal constraints
- Open educational resources
- Volunteers
- Peer learning
- Text-based
- Students in 126 countries



Inside the “Black Box”

“Big data” enables personalization

- Tailor the approach to each learner
- Focus on areas of weakness
- Adapt to personal aspirations
- Personalize advice, counseling, degree planning



—Smith, 2010

Feedback to instructor

Module 1

Examining Distributions

ESTIMATED
LEARNING LEVEL



Learning Objectives



Summarize and describe the distribution of a categorical variable in context.

[* Show Details...]



Generate and interpret several different graphical displays of the distribution of a quantitative variable (histogram, stemplot, boxplot).

[* Show Details...]



Summarize and describe the distribution of a quantitative variable in context: a) describe the overall pattern, b) describe striking deviations from the pattern.

[* Show Details...]



Relate measures of center and spread to the shape of the distribution, and choose the appropriate measures in different contexts.

[* Hide Details...]

Estimated Learning by Student



50 students

1 dot = 2 students



Class Accuracy by Sub-Objective



Predicting...

Mean vs median

Compute median

Identify outlier

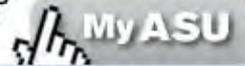
Select appropriate...



eAdvisor

*online advising and
personalized student support*

Students: Sign in to MyASU
to view your personalized
eAdvisor tools

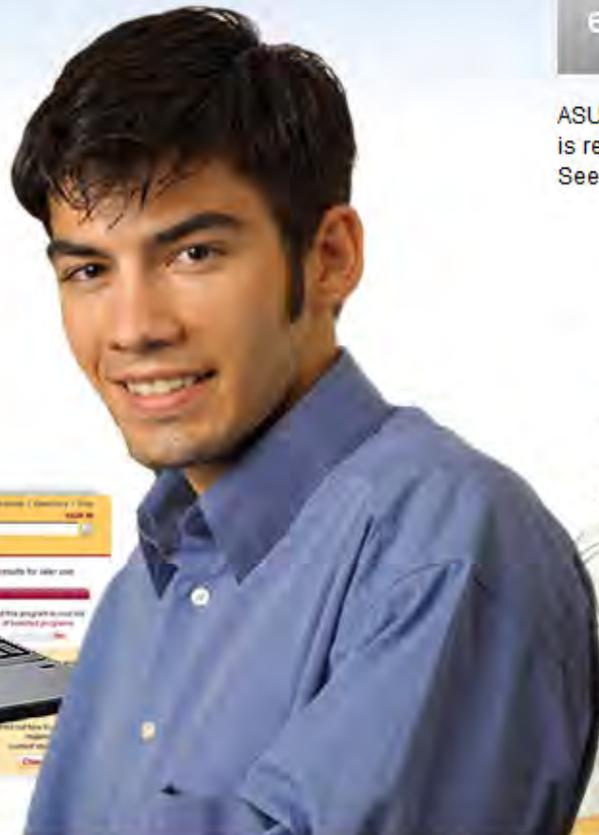


What is eAdvisor?

We are committed to ensuring our students reach their academic goals and graduate in four years. Read more about how we [monitor student progress](#), provide [academic resources](#), and use [personalized tools](#) to advise students and ensure they get off to a good start on day one and stay on track towards graduation.

eAdvisor: Improving Retention

ASU's focus on improving individual student success is resulting in more students persisting to graduation. See more on the plan and our progress.



Students know where they stand

ASU ARIZONA STATE UNIVERSITY

ASU Home | ASU A-Z Index | My ASU | Colleges & Schools | Directory | Map
 Change User | Stop View as Student | John Rome | SIGN OUT

MY ASU My Info My Profile My Stuff

Critical Requirements Audit

My progress towards completing my critical requirements during my first four semesters (eAdvisor)

Student Name: Maggie
 University Academic Standing: **Good Standing** | ASU Cumulative GPA: **3.47**
 College: **Ira A. Fulton Schools of Engineering**
 Major: **Computer Science, BS** | Catalog Year: **Summer 2011** | Current Track Term: **3**
 Status: **On Track** ✓

VIEW: 8 semester major map (PDF) | Graduation requirements audit | Unmet graduation requirements | Search for a new degree

Additional Major Information:
 Please see Major Map PDF (8 semester plan) for additional information on college and major specific requirements.

- **Advanced placement (AP) credit:** AP credit is directly received by ASU from the College Entrance Examination Board. New freshmen may show as off track until the credit is posted in August.
- **Transfer credit:** You must have your transcripts sent from the issuing institution directly to ASU in order for courses to be evaluated and transferred.

Expand All Terms

Requirement Type: Critical Major Requirement Major Requirement

Status Type: On Track Off Track On Track by Override Out of Sequence

Track Term 1 (1-15 hours)

Requirement Type Detail	Status Reason	Course / GPA	Grade	Hours	Term Taken	Notes
if completed at ASU no grades of D, E in: MAT 117, 170	✓ Requirement met					(None)
No Grades of D, E in C minimum courses: CSE 100(or 110), 101, 120, 205, MAT 243, 265, 266, 267	✓ Requirement met					
2.00 Minimum GPA: ASU Cumulative	✓ GPA Requirement met	3.39				
ASU 101 - The ASU Experience: 1 hour	✓	ASU 101	A+	1.0	Fall 2011	
Term 1 First-Year Composition: 3 hours, C minimum	✓	ENG 101	A	3.0	Fall 2011	

Track Term 2 (16-31 hours)

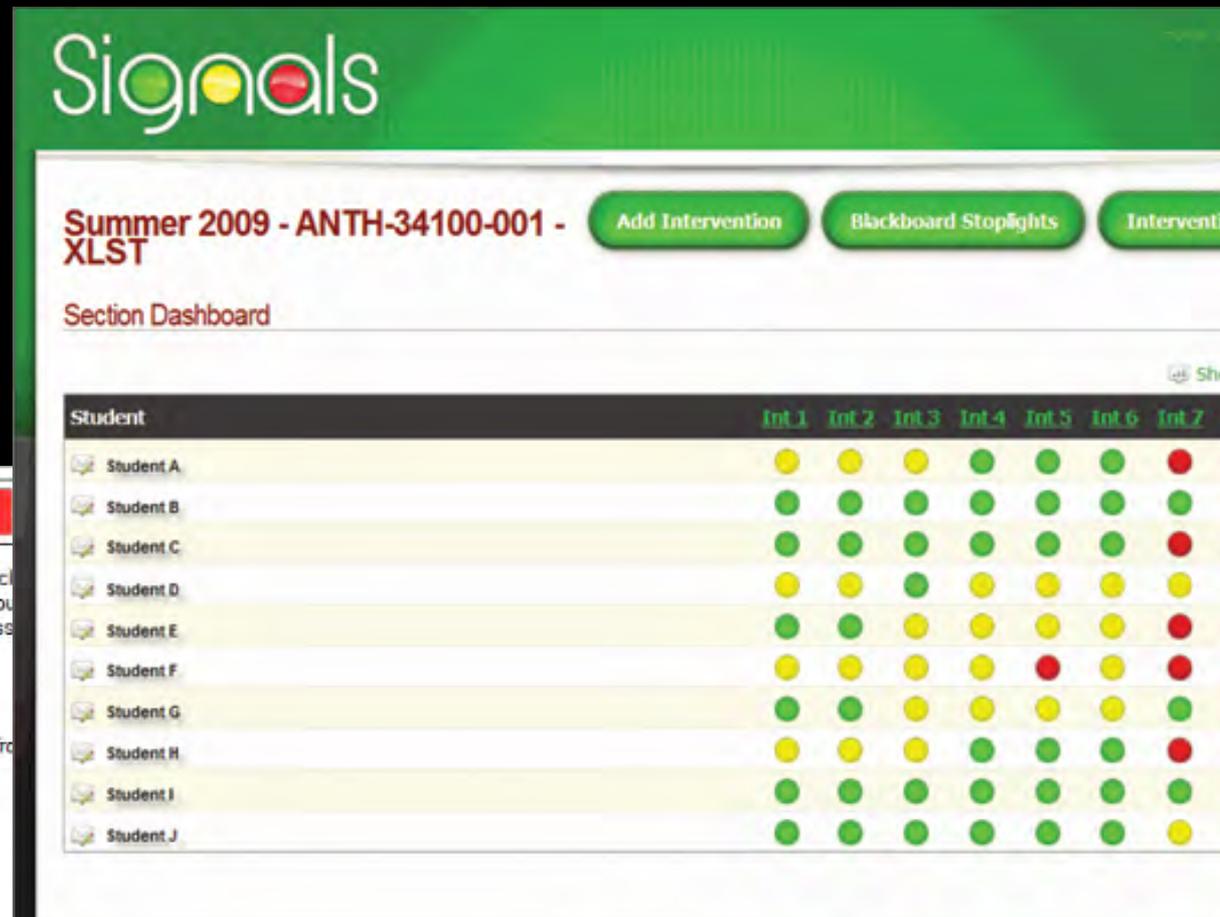
Requirement Type Detail	Status Reason	Course / GPA	Grade	Hours	Term Taken	Notes
No Grades of D, E in C minimum courses: CSE 100(or 110), 101, 120, 205, MAT 243, 265, 266, 267	✓ Requirement met					(None)
2.00 Minimum GPA: ASU Cumulative	✓ GPA Requirement met	3.39				
Term 2 First-Year Composition: 3 hours, C minimum	✓	ENG 102	A	3.0	Spring 2012	

Track Term 3 (32-47 hours)

Requirement Type Detail	Status Reason	Course / GPA	Grade	Hours	Term Taken	Notes
		MAT 270	AP	4.0	Summer 2011	(None)
		CSE 110	B+	3.0	Fall 2011	
		MAT 266	B	3.0	Fall 2011	

Prediction and intervention

- Identify struggling students
- Alert student to problems
- Direct to resources
- Improves success by up to 28%



STOP! You need to get help in this class.

Based on your use of online resources and assignments, and according to our class data, you are performing well below the level you need to succeed in this course. If you are putting a low level of effort, it is likely that you will not do as well as you could in this class. Get help, now!

- To get help, please do one or all of the following:
1. You can get help by staying after your scheduled lab meets to get help from your TA.
 2. You can go to the weekly help session at the help center in LILY.
 3. You can make an appointment for help with your TA.
 4. You can meet with me during my office hours, MW 1-2pm.

Peer comparisons

- Check-My-Activity; “How am I doing?”
- Students compare their online course activity with peers
 - Higher grade
 - Same grade
 - Lower grade
- Allows student to link behaviors with performance



Check My Activity

- Hits are in no way representative of the grade you will earn.
- Attempting to game the system will not result in a higher course grade.
- This tool is for personal use only.
- Tip: [Improving Your Engagement In a Class](#)

Blackboard Course	Hits		Sessions		Grade Report
	You	Average	You	Average	
CMPE 321	9	221	3	39	Yes
CRAB 101	1	35	1	7	Yes
deb	2	103	1	8	Yes
LLC 600	6	13	2	2	No
LLC 644	438	295	60	43	No
LLC 645	82	66	8	6	No
SCI 100Y	29	125	2	21	Yes

Closing Thoughts

Change is a choice. The
best choice is an
informed choice.

Our greatest challenge is to unlearn our assumptions about teaching, learning, and education.

IT is a game
changer.

GAME CHANGERS

EDUCATION and
INFORMATION
TECHNOLOGIES

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E D U C A U S E