

Blackboard

# A Strategic Guide for ELearning and Beyond in the 21st Century

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# Presentation Goals



Review industry publications

Identify significant trends and implications

How Blackboard aligns with these trends and implications

Discuss Teaching & Learning implications

EDUCAUSE | LEARNING INITIATIVE

## The Next Generation Digital Learning Environment

A Report on Research



Horizon Report > 2018 Higher Education Edition  
Brought to you by EDUCAUSE

EDUCAUSE

## The State of Higher Education in 2018

Seventh annual report

2018

## ONLINE COLLEGE STUDENTS

Comprehensive Data on Demands and Preferences



Why IT Matters to Higher Education

EDUCAUSEreview



# Industry Trends & Direction

## **The State of Higher Education in 2018**

Seventh annual report



## Prepare for disruption



### PREPARE FOR GLOBAL TRADE DISRUPTION



Become globally astute



Be relevant to diverse students worldwide



Have a presence where students are

## Prepare for disruption

### PREPARE FOR GOVERNMENT POLICY DISRUPTION



Develop revenue models  
less reliant on tuition and  
state funding



Communicate to students the  
value of education offerings



## Prepare for disruption



### PREPARE FOR TECHNOLOGICAL DISRUPTION

Develop a robust infrastructure to:



Integrate learning environments



Address diverse student needs



Leverage information for decision-making

# Industry Trends & Direction



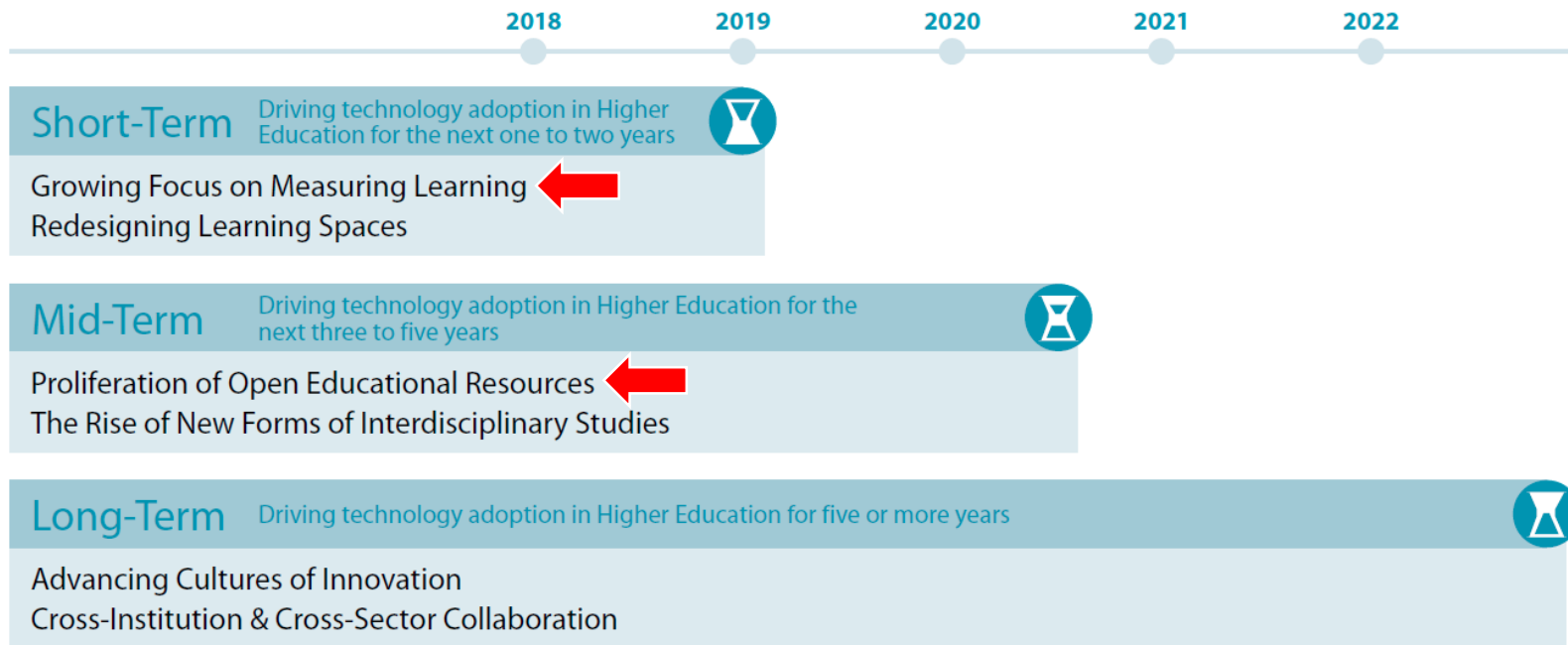
**Horizon Report** > 2018 Higher Education Edition  
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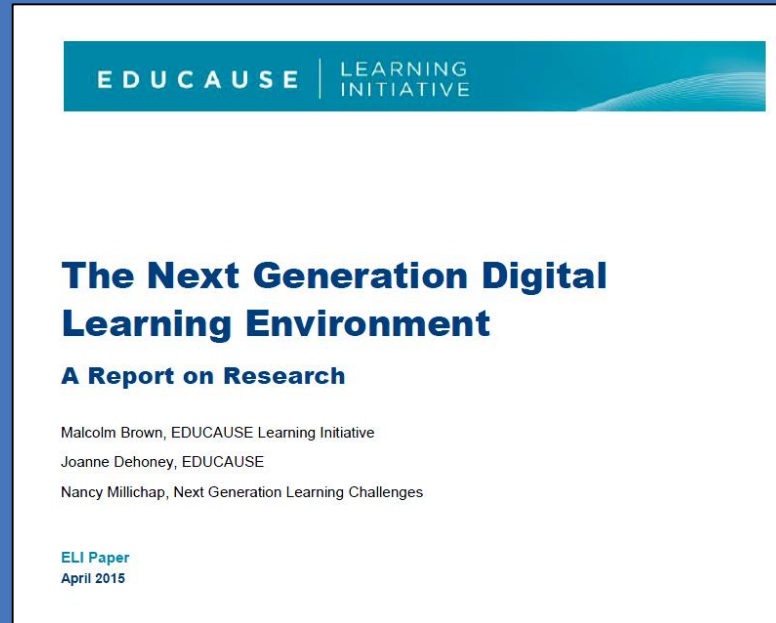


# Trends in Higher Education

## Key Trends Accelerating Higher Education Technology Adoption



# Industry Trends & Direction



# The Next Generation Digital Learning Environment (NGDLE)



The **NGDLE** is an **ecosystem**. In other words... a **dynamic, interconnected, ever-evolving community of learners, instructors, tools, and content.**

This is particularly true today as higher education is transitioning from the transmission model of education to one built on concepts such as active learning, personalization, hybrid course designs, and new directions for measuring degree progress.

## Dimensions of NGDLE

- Interoperability and Integration
- Personalization – Adaptive Learning
- Analytics, Advising, and Learning Assessment
- Collaboration
- Accessibility and Universal Design



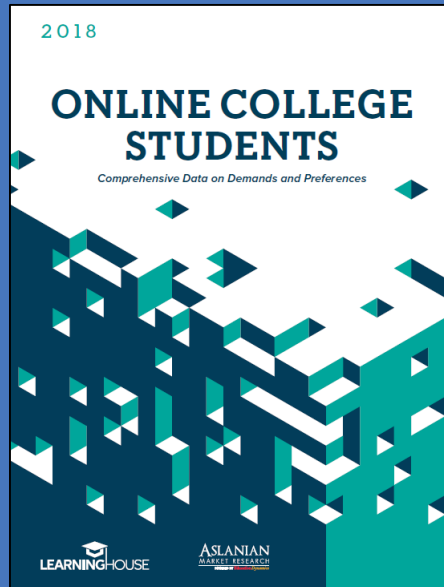
## Creating a Fluid Learning Environment

- By 2025, **mobile natives** — students **born after the Apple iPhone** went to market — will be **entering higher education**, bringing with them **an era of mobile learning**.
- To successfully **attract these students**, institutions and faculty members must begin now to find innovative ways to **transform student learning** experiences with mobile devices.
- **Five attributes** are key to successfully **design content** and activities for fluid learning: **neutrality, granularity, portability, interactivity, and ubiquity**.

## 5 Attributes for Fluid Learning

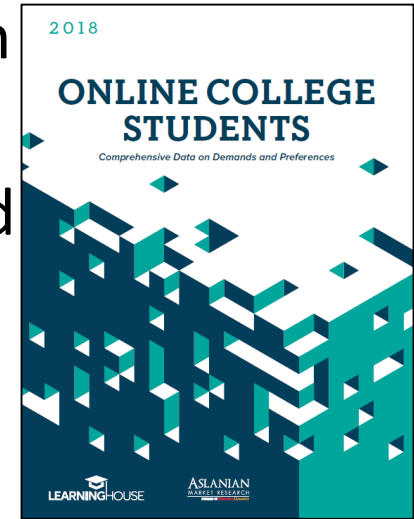
- **Neutrality** – Accessible regardless of device and/or proprietary technologies
- **Granularity** – Present content in smaller units (when appropriate) for easier consumption
- **Portability** – Content must be transferable across platforms and/or devices (i.e. Evernote)
- **Interactivity** – Engage students with and through content. A must in all settings and/or delivery methods (not just mobile, not just online)
- **Ubiquity** – Be present beyond learning spaces. Be present in relevant settings and contexts (workplace, learning space, museums, etc.)

# Industry Trends & Direction



## Online College Students Key Findings

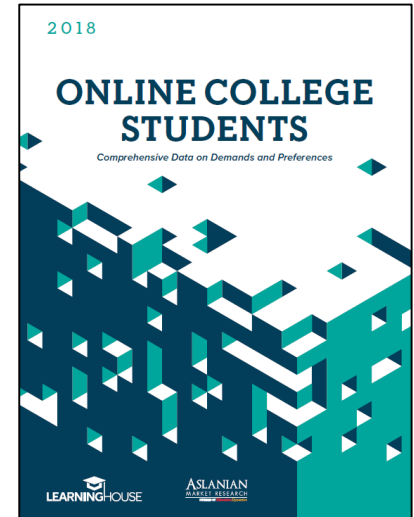
1. Mobile-friendly content is critical
2. Online students need career services
3. Online learning is providing a positive return on students' investment
4. Online programs are becoming more diversified
5. Online students support innovations that decrease the cost and time to complete a degree





## Online College Students Key Findings

6. Interactions and relationships with peers are key to online students' success
7. Multichannel approaches to advertising and marketing are necessary to attract online students
8. An online degree's value is more than its price
9. Online students are bypassing the on-ground classroom for added convenience



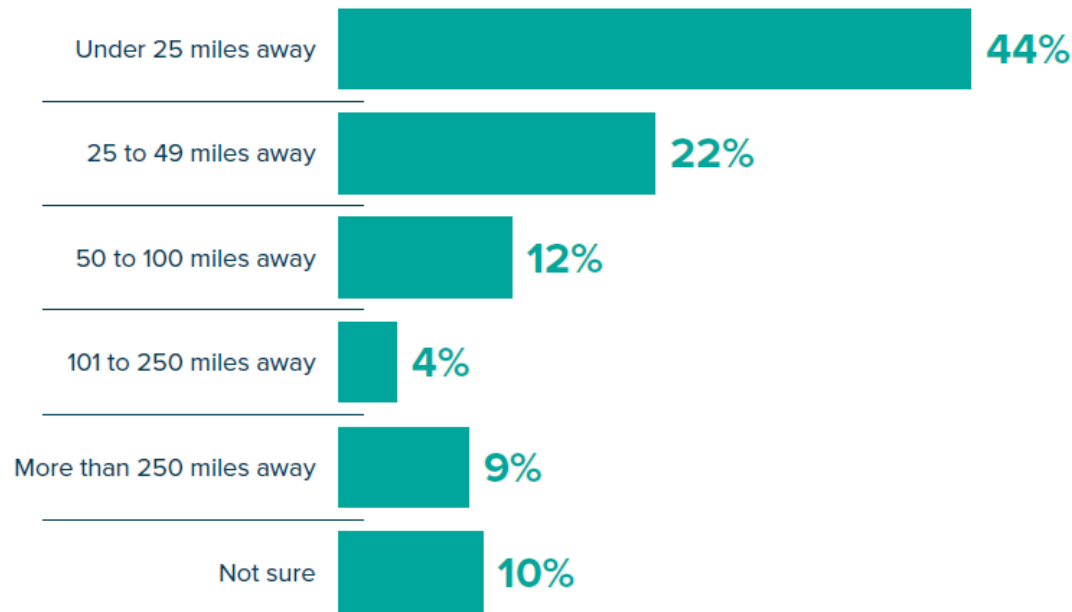
## Fields of Study

Undergraduate Field of Study	Movement 2014 to 2018
Business Administration	▼
Psychology	▼
Computer Science	▲
Child Psychology	▲

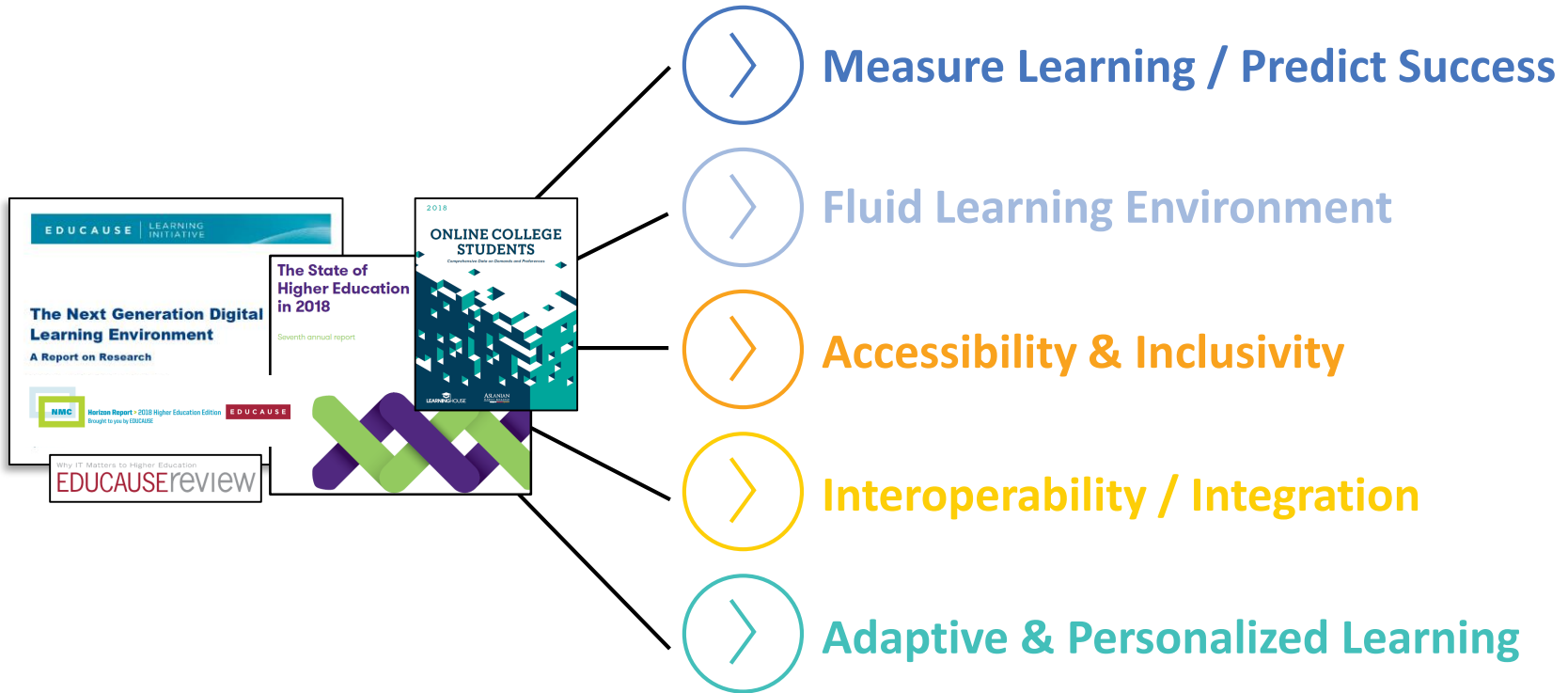
Graduate Field of Study	Movement 2014 to 2018
Business Administration	▼
Nursing	▼
Elementary Education	▼
Curriculum & Instruction	▼
Computer Science	▲
Social Work	▲
Information Technology	▲
Nurse Practitioner	▲

# Enrollment of Online Students

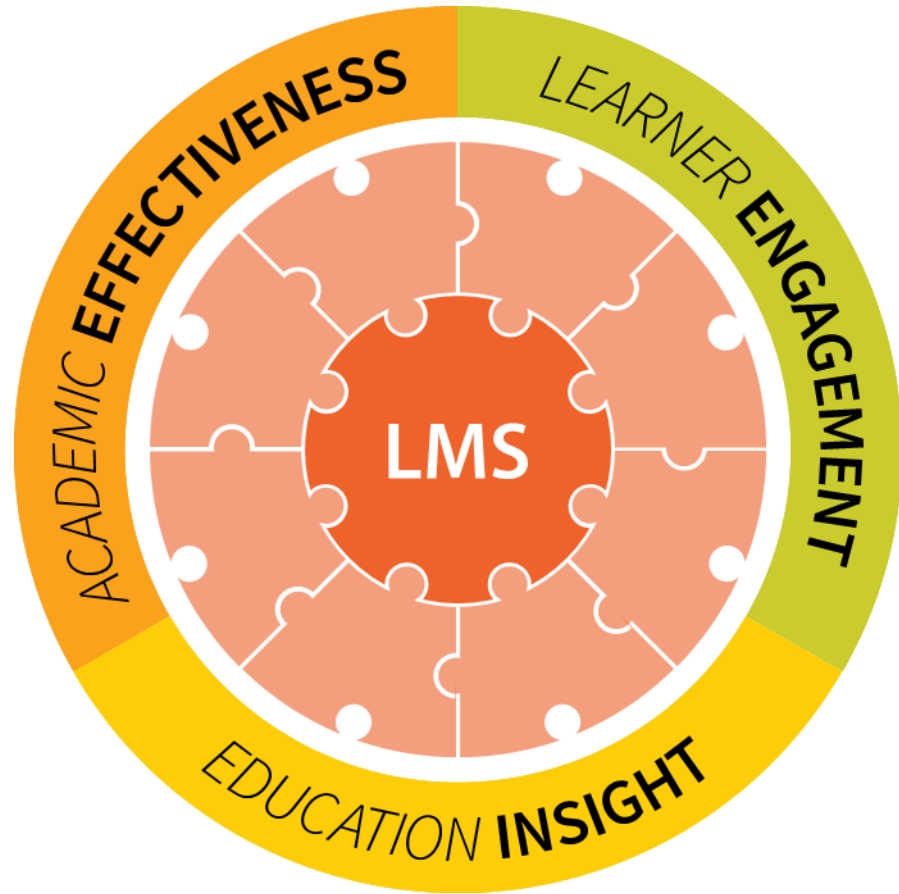
How far do you live from the closest campus/service center of the college/  
university in which you enrolled?



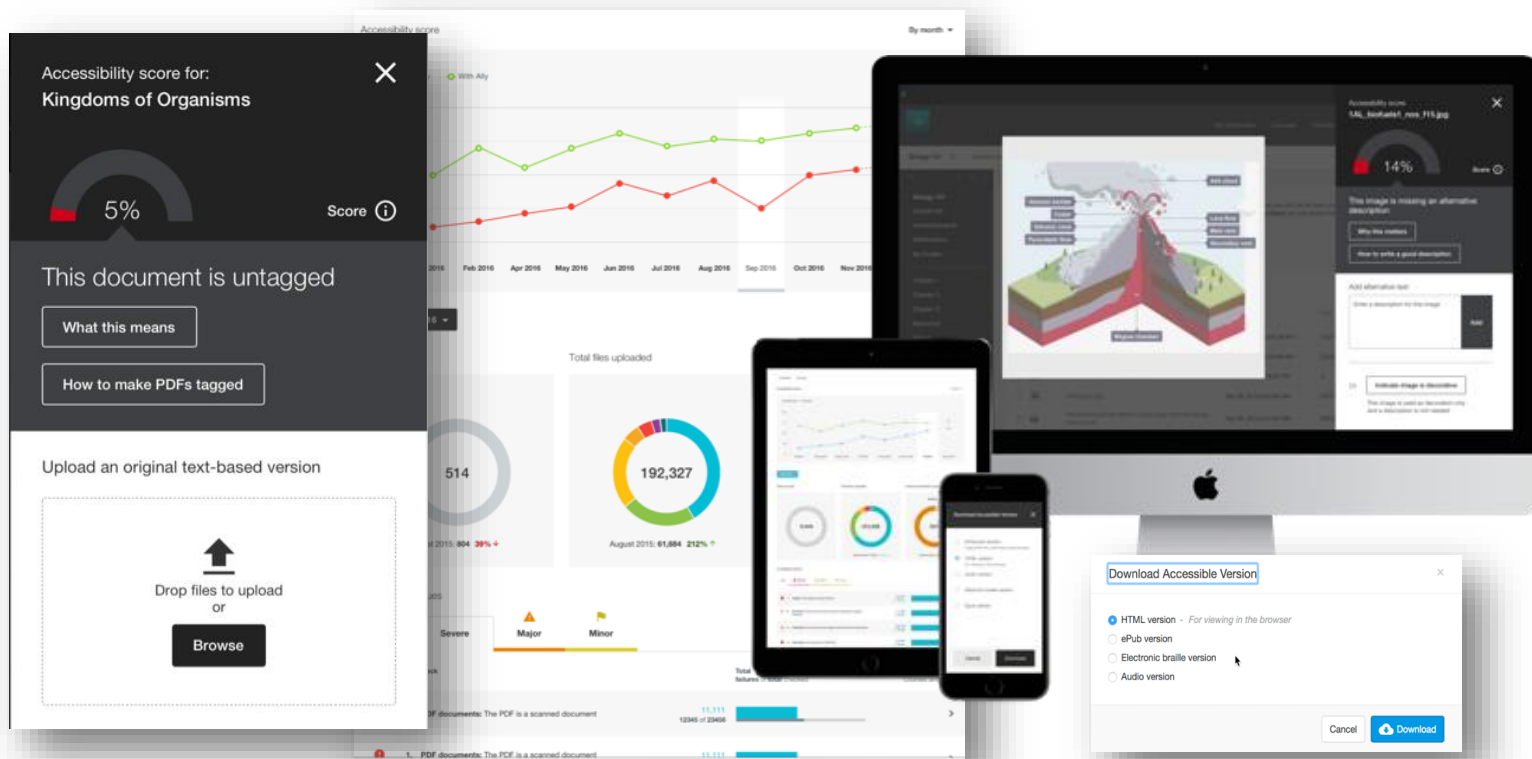
# Recap



# Blackboard *EdTech* *Platform*



# Accessibility & Inclusivity



# Accessibility & Inclusivity



## 3. Test Availability Exceptions

Click **Add User or Group** to search for course users and groups to add to the exceptions. Click **Remove All Exceptions** to delete all exceptions.

**Add User or Group** **Remove All Exceptions**

User or Group	Name	Attempts
	Hector Holland	Single Attempt
	Sarah Johnson	Multiple Attempts 3

## 4. Due Date

Set the date the assessment is due. Optionally, do not allow students to take a test after the due date.

Submissions are accepted after this date, but are marked Late.

AST\_101\_kowens • Introduction to Astronomy - Ultra

Roster

Joanne Anderson  
INSTRUCTOR

Edgar Gonzalez  
INSTRUCTOR

Jeff Acton  
Student

Trish Benton  
Student

Edgar Gonzalez  
Student

Alex Heath  
Student

Mike Johnson  
Student

Cary Lang  
Student

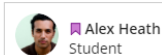
James Marsh  
Student

Allison Matthews  
Student

Introduction to Astronomy - Ultra

## Accommodations

Select accommodations for this student. When you create graded items, students with accommodations appear in the settings.



### ☒ Due date accommodation

Students with a due date accommodation never have their work marked late. When students with accommodations are in a group, all students in that group inherit the accommodation.

### ☐ Time limit accommodation

Students with a time limit accommodation have more time to finish their work during timed assessments.

Cancel

Save

# Accessibility & Inclusivity

The screenshot shows a Zoom video player interface. The main video frame displays a man in a light blue shirt, identified as Stan Phillips, speaking. Above the video, the text "Astrophysics 101 | Introduction to Astrophysics" is visible. Below the video, a caption reads: "The temperature on Pluto ranges from 33 to 55 Kelvin. This is a range of -400 to -360 degrees Fahrenheit with an average surface temperature of 44 Kelvin." The name "Carl Marrelli" is shown in the bottom left corner of the video frame. A settings sidebar is open on the right, titled "My Settings", showing the user "Duke Ellington" with a "Present" status. The sidebar includes sections for "Audio & Video Settings" (with options for camera/microphone setup, phone audio, and volume sliders), "Display closed captions (when available)", and "Notification Settings". A "Give us feedback" link is at the bottom of the sidebar.

Astrophysics 101 | Introduction to Astrophysics

Stan Phillips

Carl Marrelli

The temperature on Pluto ranges from 33 to 55 Kelvin  
This is a range of -400 to -360 degrees Fahrenheit  
with an average surface temperature of 44 Kelvin

AA Small

**My Settings**

Duke Ellington  
Present

**Audio & Video Settings**

Set up your camera and microphone

Use phone for audio, dial in  
555-123-4567 PIN: 890155

Speaker Volume

Microphone Volume

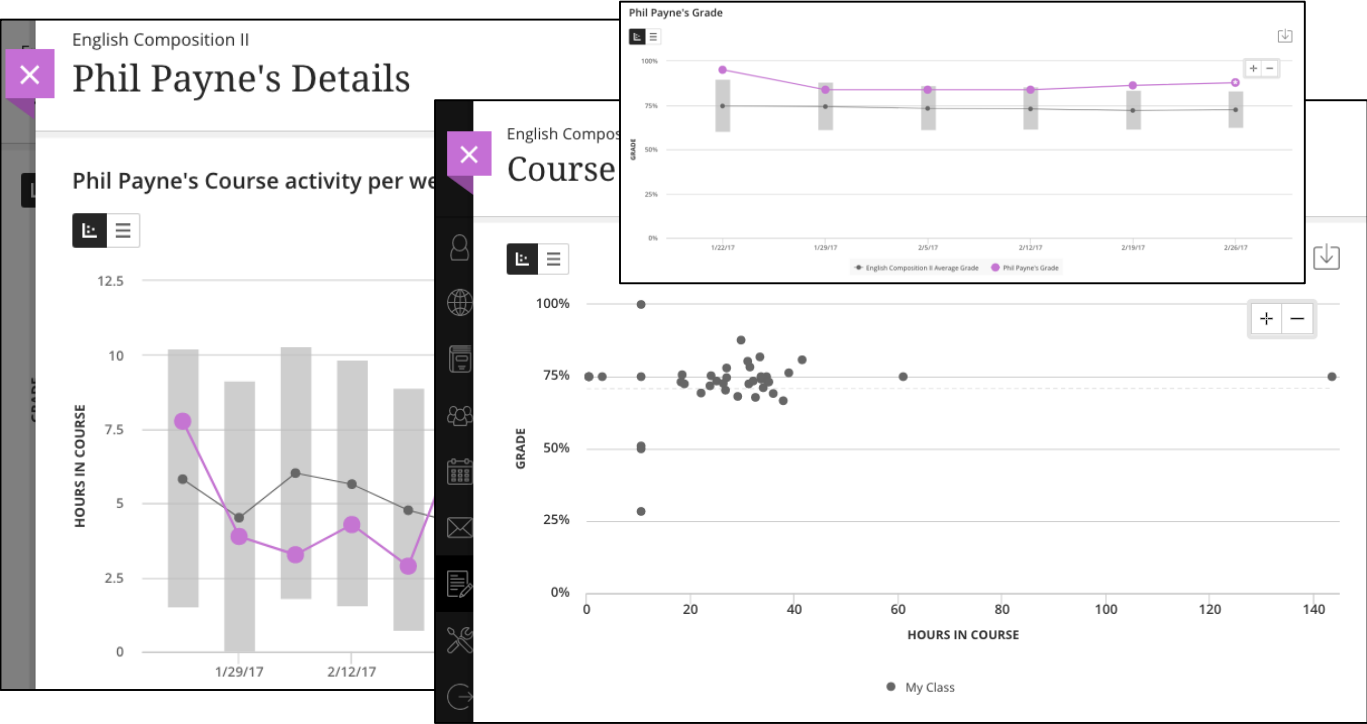
Display closed captions (when available)

**Notification Settings**

Give us feedback



# Measure Learning & Predict Success



# Adaptive & Personalized Learning

The screenshot shows a course management interface. On the left, under 'Details & Actions', there are links for 'Roster' (View everyone in your course), 'Course Description' (View the course description), 'Course is open' (Students can access this course), 'Course Room' (Join session), 'Attendance' (Mark attendance), and 'Announcements' (Create announcement). On the right, under 'Course Content', there is a list of items: 'Introductory Astronomy syllabus' (Visible to students), 'What Makes Earth Habitable?' (Visible to students), 'NASA's Astronomy Picture of the Day' (Visible to students, with a note to check back each day for a new picture), 'Our Solar System' (Visible to students, with a note to introduce to our "local" environment), and 'Milky Way Galaxy & Beyond'.

Introductory Astronomy syllabus



## Conditional Availability

### Define Conditions

You can limit availability for this content. Choose the conditions that must be satisfied before this content is available to students. If you choose more than one condition, students need to satisfy all conditions before the content is available to them.

☐ **Date/Time** ⓘ

☐ **Performance** ⓘ

Cancel

Save

## Interoperability & Integration

**2,700  
Integrations**

Support for LTI v2.0  
Learning Tools (with full)  
Interoperability

Support for Caliper  
*Transmission to 3rd party BI  
solutions*

**192  
Partners**

Mc  
Graw  
Hill

**Blackboard®**

Pearson

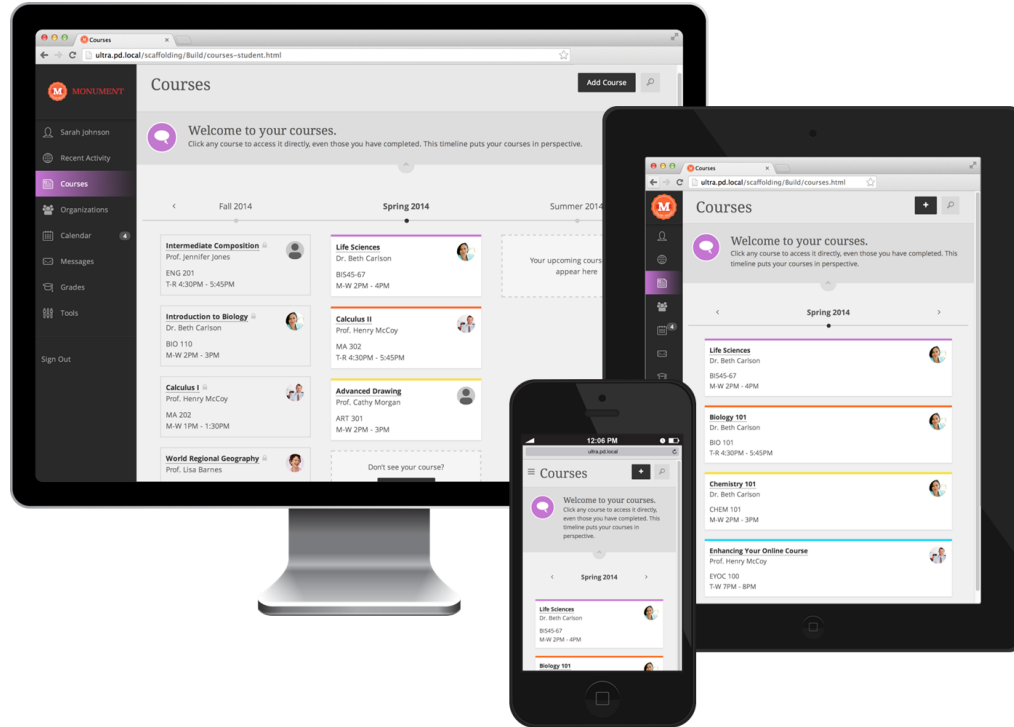


Dropbox

VitalSource

ReadSpeaker

# Fluid Learning Environment - Neutrality



## Fluid Learning Environment – Neutrality & Interactivity



# Fluid Learning Environment - Granularity

The screenshot displays a course interface for 'Introduction to Biology 201'. At the top, the course title is shown next to a close button. Below the title, the instructor's profile for Jim Chalex is featured, including a photo and name. To the right, the course schedule is listed as 'Tuesday, Thursday 1:00 PM - 2:00 PM' at 'Jefferson 422'. A vertical sidebar on the left contains various icons for navigation. The main content area is divided into two columns: 'Details & Actions' and 'Course Content'. The 'Details & Actions' column lists items such as 'Francesca Monaco' (Instructor), 'Roster' (View everyone in your course), and 'Course is open' (Students can access this course). The 'Course Content' column shows 'Syllabus & Resources' (Visible to students) and a description of the course. Below this, a document titled 'Introduction to Biology Syllabus.docx' is listed as 'Visible to students'. A 'Virtual Classroom' section is also present, with a dropdown menu for visibility settings. The dropdown menu is open, showing options: 'Visible to students', 'Hidden from students', and 'Show/hide on date'. The 'Visible to students' option is currently selected.

jim\_intro\_bio\_201

## Introduction to Biology 201

**Jim Chalex**  
Instructor

**Tuesday, Thursday**  
1:00 PM - 2:00 PM

**Jefferson 422**

### Details & Actions

**Francesca Monaco**  
Instructor

**Roster**  
View everyone in your course

**Course is open**  
Students can access this course

### Course Content

**Syllabus & Resources**  
Visible to students

You'll find general information about the course here.

**Introduction to Biology Syllabus.docx**  
Visible to students

**Virtual Classroom**  
Visible to students ▼

- Visible to students
- Hidden from students
- Show/hide on date

online and real-time portions of our course.

# Fluid Learning Environment - Granularity

The screenshot displays a user interface for a course titled "Introduction to Biology 201" (jim\_intro\_bio\_201). The main area is divided into two columns: "Details & Actions" and "Course Content".

**Details & Actions:**

- Jim Chalex** (Instructor): Profile picture and name.
- Francesca Monaco** (Instructor): Profile picture and name.
- Roster**: View everyone in your course.
- Course is open**: Students can access this course.

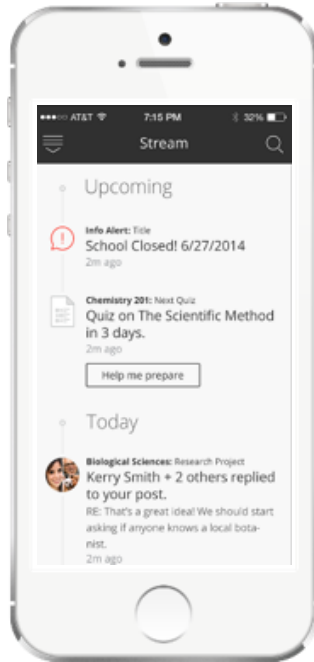
**Course Content:**

- Syllabus & Resources**: Visible to students. You'll find general information about the course.
- Unit 1 - Cell Theory**: Visible to students. In biology, cell theory is a scientific theory that explores this topic, with readings and assessments.
- Unit 2 - Evolution**: Visible to students.

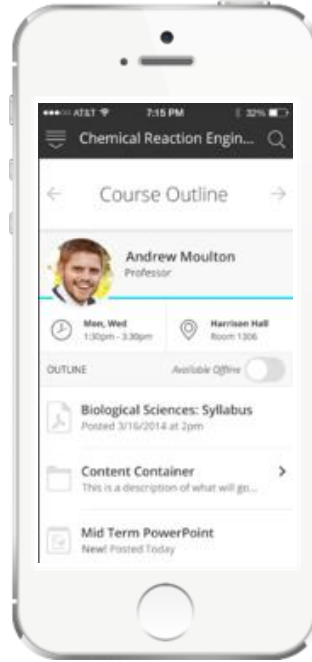
**Create Item Sidebar:**

- Course Content Items** (Expanded):
  - Folder
  - Document
  - Link
  - Teaching Tools via LTI Connection
  - SCORM Object
- Assessment** (Collapsed)
- Participation and Engagement** (Collapsed)

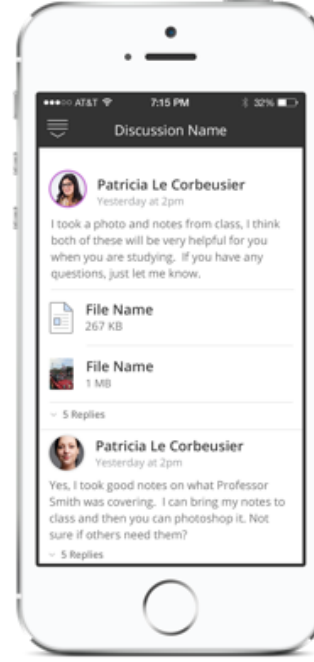
# Fluid Learning Environment – Ubiquity & Portability



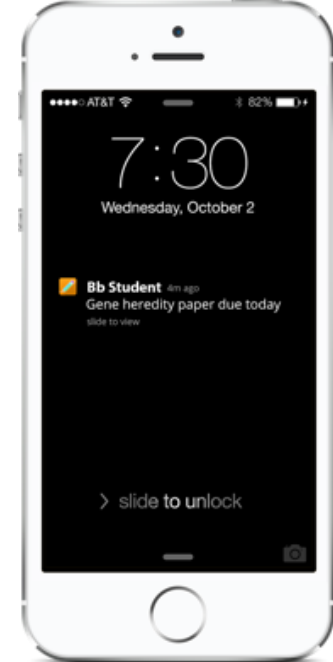
Stream:  
What's New/Due



Course Outline



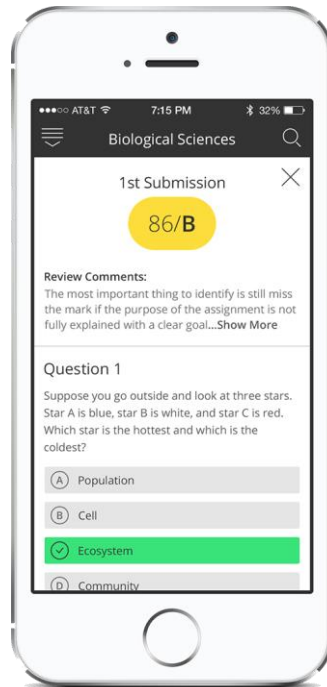
Discussions



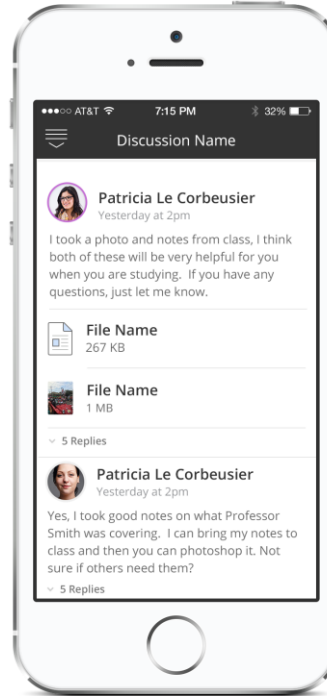
Push Notifications



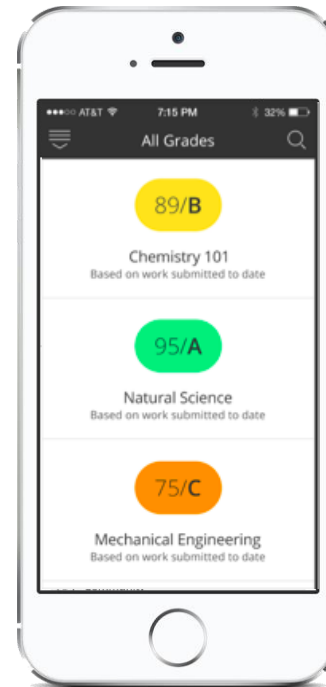
# Fluid Learning Environment – Ubiquity & Interactivity



Tests



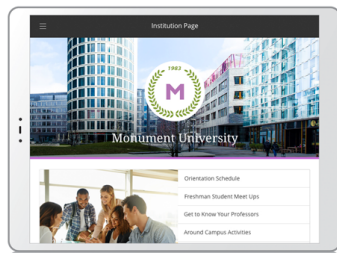
Discussions



MyGrades

## Welcome to the new CourseSites

*formerly Educator Preview*



It's never been easier to teach.  
And learn.

Whether you're coming from the [original CourseSites](#), from Educator Preview, or you're brand new to CourseSites - this is your destination to try out Blackboard's Ultra experience and teach courses online, for free.

REGISTER NOW

[new.coursesites.com](https://new.coursesites.com)

### Save time

Efficiently engage students, get the information you need, and manage courses with fewer clicks.

## Sources

- <https://net.educause.edu/ir/library/pdf/eli3035.pdf> EDUCAUSE NGDLE
- <http://er.educause.edu/articles/2014/10/creating-a-fluid-learning-environment> EDUCASUE Fluid Learning Environment
- <https://www.grantthornton.com/library/whitepapers/nfp/2018/state-of-higher-ed/you-can-see-higher-eds-future-from-here.aspx> The State of Higher Education 2018
- <https://library.educause.edu/resources/2018/8/2018-nmc-horizon-report> 2018 NMC Horizon Report
- <https://www.learninghouse.com/knowledge-center/research-reports/ocs2018/> Learning House Online College Student 2018

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