



Accessing Course Data to Make Data Driven Decisions in D2L

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Agenda

Data and reports available to instructors in D2L

- Built-In Reports
- In-Line Tool Reports and Statistics
- Using other D2L tools for data collection
- Data Hub
- Insights for Instructors
- Insights Portal



Why look at learner data?

- Know where lessons, class activities, tests, and quizzes are weak and where they are strong.
- See student progress.
- See activities in which students are engaged.
- See where students are disengaged.
- See how much time and effort students are putting into activities.

Built-in Reports

Easy-to-use
reports directly
integrated
within courses



See what content is being
accessed and how learners are
progressing



Compare learners' performance
throughout the course



See inline tool reports with
detailed statistics for tools
within Brightspace

Class Progress

View of all student engagement for every tool made available across the course

Students can access their own class progress

10 key points of metrics

Class Progress Dashboard

Class Progress

Filter to: All Users ▾

Settings Help

Search users

Name	Content	Discussions	Logins	Grades
 Allen, Brittany Brittany.Allen 874236	<div><div style="width: 36%;">36 %</div></div> Visited: 36 / 101	0 read 11 threads 37 replies	No logins	 85.93 %
 Anderson, Roger Roger.Anderson 567218	<div><div style="width: 17%;">17 %</div></div> Visited: 17 / 101	2 read 7 threads 7 replies	No logins	 35.68 %
 Aubren, Lucas Lucas.Aubren 987152	<div><div style="width: 18%;">18 %</div></div> Visited: 18 / 101	0 read 6 threads 4 replies	No logins	 40.4 %
 Bell, Madison Madison.Bell 456987	<div><div style="width: 22%;">22 %</div></div> Visited: 22 / 101	133 read 11 threads 25 replies	No logins	 47.38 %
 Briston, Turner turner.briston 677865	<div><div style="width: 12%;">12 %</div></div> Visited: 12 / 101	0 read 11 threads 21 replies	No logins	 40.09 %
 Brown, Clara Clara.Brown 987654	<div><div style="width: 24%;">24 %</div></div> Visited: 24 / 101	142 read 11 threads 23 replies	No logins	 41.8 %
 Campbell, Mila Mila.Campbell 094842	<div><div style="width: 13%;">13 %</div></div> Visited: 14 / 104	39 read 15 threads 17 replies	No logins	 34.87 %

User Progress Dashboard

Class Progress > Madison Bell > Content

Print Settings Help

Bell, Madison
Madison.Bell
456987

< >

Intro to HTML and CSS

Summary

Grades

Objectives

Content

Discussions

Dropbox

Quizzes

Checklist

Surveys

Course Access

Login History

Content Progress

Visits Time Spent Topics Visited

73 0d 12h 30m 39s 22

22 % Visited: 22 / 101

Table of Contents	
The First Step	Completed: 1 / 11
9 %	
▶ 11 Topics, 0 Modules	Last Visited: Feb 3, 2013 1:55 PM
Exploring the Web	
0 %	Completed: 0 / 11
▶ 0 Topics, 11 Modules	Never visited
Page Structure	
100 %	Completed: 12 / 12
▶ 12 Topics, 0 Modules	Last Visited: May 13, 2013 9:34 AM
Class Project	
100 %	Completed: 1 / 1
▶ 1 Topics, 0 Modules	Last Visited: May 22, 2013 7:39 AM

Set display indicators for table on Class Progress dashboard.

Settings

Set which indicators display in the table on the Class Progress dashboard. Numerical order represents the reading order of the indicator columns in the table.



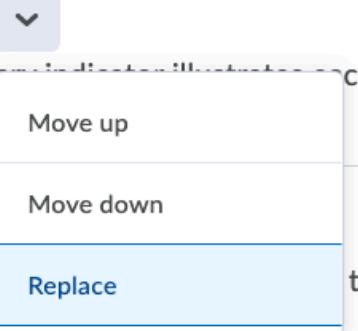
Content Completion Summary

The Content Completion Summary indicator shows how many required content topics each student has completed.



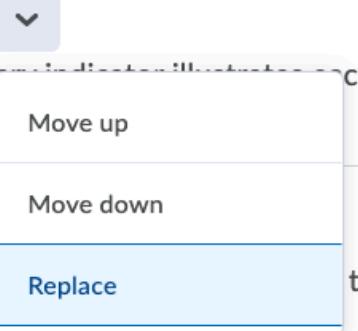
Objectives Completion Summary

The Objectives Completion Summary indicator shows the student's progression through the



Login History (Last 30 days)

The Login History indicator displays the number of logins to the system for the last 30 days.



Grades Performance Summary

The Grades Performance Summary indicator presents the current final grade for the student, as well as a visualization of the scores of the last 15 items. Hovering over each bar provides additional details for the grades.

In-Line Tool Reports and Statistics



Content Tool > Content Reports



Content > Table of Contents > Related Tools > View Reports
(original content experience)



Key statistics for all content items delivered to students

the total number of users,
the number of users who visited course content,
and
the average time users spent viewing content.



You can view overall course content statistics, and specific statistics for individual topics.

Content Reports

Reports



Content	Users	Average Time Spent on Content
Total Number of Users	Users Who Have Visited Content	Average Time Spent on Content
40 ⓘ	40 ⓘ	21:10:44 ⓘ
Expand All Collapse All		
Content		
▼ 1. Syllabus	40	40 0:48:25
i. ⏵ Syllabus EDU 2022	40	40 0:52:19
ii. ⏵ Course Outline	40	21 0:23:01
▼ 2. Week 1 🔍	40	36 -
i. Week 1 Readings	40	0 -
ii. Week 1 Video	40	33 0:05:32
i. ⏵ 7 Ways The ISTE Standards for Students Music Video	40	33 0:05:32

Discussion Forum Statistics

Forums and Topics

[Users](#) [Forums and Topics](#)

Org Unit Statistics

Total Threads (All Forums): 3
Total Replies (All Forums): 4
Unapproved Posts: 0

User Statistics

View By: [User](#) [Apply](#)

Search For... [Show Search Options](#)

Last Name ▲ , First Name	Number of Posts				
	Threads	Replies	Read (including own)	Unapproved	Scored
Alexander, Alexis	0	0	0	0	0
Brown, Garcia	0	0	5	0	0
Butler, Mila	1	1	7	0	0
Carter, Ethan	1	3	7	0	0
Carter, Lyle	0	0	0	0	0
	0	0	0	0	0

Quiz Statistics

- User Stats

User Stats Question Stats Question Details

User Statistics

Score Distribution:

Percentage of Users

Average Grade	Percentage of Users
0%	0%
25%	~10%
50%	~10%
75%	~30%
100%	~50%

Class Average:  55 % (Std Dev = 31.47 %)

Search For...  Show Search Options

Last Name ▲ , First Name	Average Grade
Alexander, Alexis	 100 %
Brown, Garcia	 20 %
Butler, Mila	 40 %
Carter, Ethan	 40 %

Quiz Statistics

—

Question Details

Manage Quizzes > View Statistics

View Statistics – Quiz Exploring the Web

User Stats Question Stats Question Details

Question Details

Has Start Date: 1/19/2017, Now

Has End Date: 1/26/2017, Now, Apply

(Number of First Attempts: 7) [What do the statistics on this page mean?](#)

Question 1 Difficulty: 1

Every webpage opens with the HTML tag

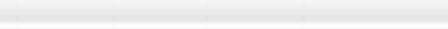
Average Grade: 0.71 / 1 (71.43 %)

True		5 (71.43 %)	Standard Deviation 48.80 %
False		2 (28.57 %)	Point Biserial 0.34

Discrimination Index 25.00 %

Question 2 Difficulty: 1

Observing Wikipedia's Page and Structure: which of the following are true

all elements are visible		0 (0 %)	
all elements are rectangular		3 (42.86 %)	Average Grade: 0.57 / 1 (57.14 %)
you can read the same text as on the page		4 (57.14 %)	Standard Deviation 53.45 %

Point Biserial 0.66

Export to CSV Export to Excel

Grade Statistics

Item Statistics: Assign: Analyzing Training Needs

Class Statistics User Statistics

View By: User Apply

Assign: Analyzing Training Needs Class Statistics

Number of submitted grades: 20 / 20

Minimum: 0 %

Maximum: 100 %

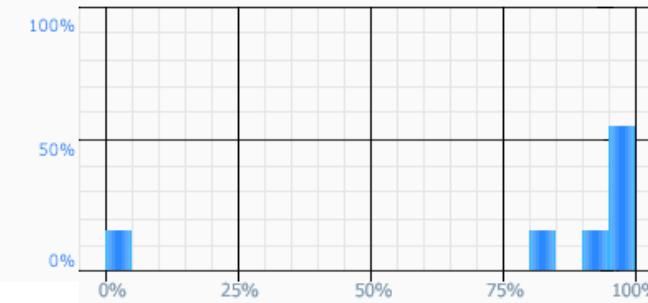
Average: 81 %

Mode: 100 %

Median: 98.3 %

Standard Deviation: 34.5 % ?

Grade Distribution



A histogram showing the distribution of grades received by users. The x-axis is labeled 'Grade Received (%)' and ranges from 0% to 100% with major ticks at 0%, 25%, 50%, 75%, and 100%. The y-axis is labeled 'Number of Users (%)' and ranges from 0% to 100% with major ticks at 0%, 50%, and 100%. The distribution is highly right-skewed, with the highest frequency of users achieving 100%.

Grade Range (%)	Number of Users (%)
0-25	~10%
75-100	~60%

Final Grade Statistics: Final Calculated Grade

Final Grade Statistics

Grade Frequency

Start %	Symbol	Frequency		
0	F	3	15 %	
59.5	D	2	10 %	
69.5	C	6	30 %	
79.5	B	1	5 %	
89.5	A	8	40 %	

Class Statistics User Statistics

View Statistics For

Final Calculated Grade

View By: User

Apply

Final Calculated Grade Class Statistics

Number of submitted grades: 20 / 20

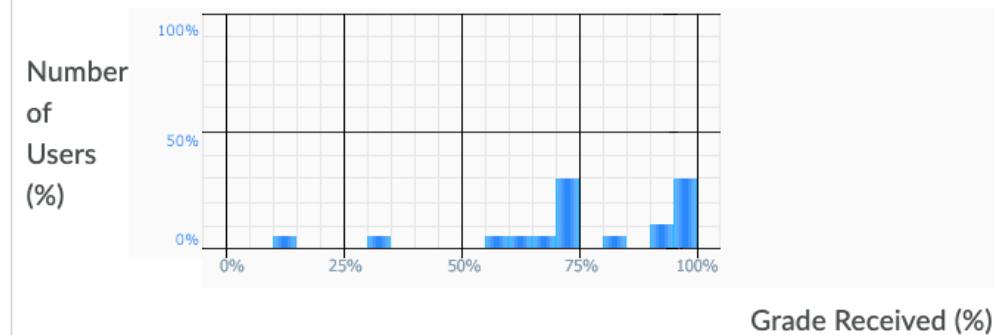
Minimum:  F (12.5 %)Maximum:  A (99.5 %)Average:  C (76.2 %)

Mode: None

Median: C (74.6 %)

Standard Deviation: F (22.5 %) ?

Grade Distribution



Rubric Statistics

Overall Criteria Statistics Individual Statistics

General Statistics for 'HTML Website Design Rubric'

Number of Assessments

41

Average

Competent

Mode

Accomplished

Overall Level

Exemplary

Accomplished

Competent

Needs Improvement

Beginning

Frequency

22 %

32 %

24 %

22 %

0 %

Close

Overall Criteria Statistics Individual Statistics

Criteria Score Frequency for 'HTML Website Design Rubric'

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

Criteria	Frequency
Layout and Design	
Exemplary	22 %
Accomplished	32 %
Competent	24 %
Needs Improvement	12 %
Beginning	10 %
Website Navigation	
Exemplary	15 %
Accomplished	27 %
Competent	20 %
Needs Improvement	29 %
Beginning	10 %
Incorporation of Audio and Video	
Exemplary	15 %
Accomplished	22 %
Competent	22 %
Needs Improvement	29 %
Beginning	12 %

Close



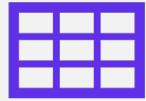
Using other D2L tools for data collection



Intelligent Agents for Data Collection



Can generate a report when a defined activity occurs or does not occur.



Can generate report for combination of activities.



Can attach release conditions.



Report can be automated or manually run.

Survey the Students



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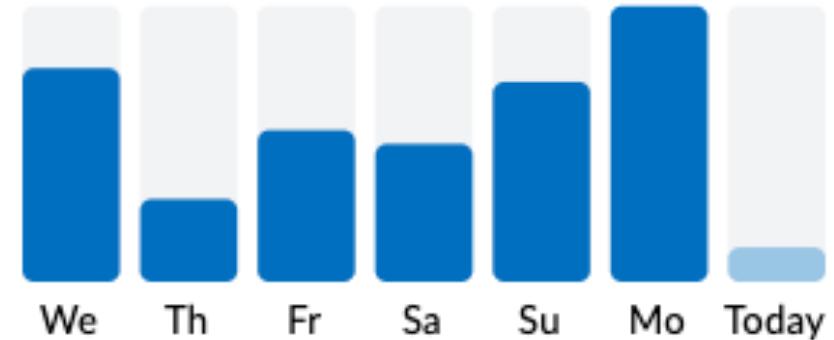
Insights for Instructors

- In-course Insights reporting was built for Instructors to answer questions in a visual way directly in their courses through the Course Overview Widget and Class Engagement Dashboard.

Course Overview Widget

- Provides a view of course access over the past week.
- Can be added to the course homepage by the instructor.
- Provides easier access to analytics about learners and courses
- Displays high-level aggregate information about the course and links to course-specific Brightspace Insights reports

Course Overview



5 people visited this course today.

No quizzes have been submitted today.

[Class Engagement](#)

[Course Access](#)

[Tool Access](#)

Course Overview Widget

Class Engagement

Class Engagement

0

students have not visited this course in the past 7 days.

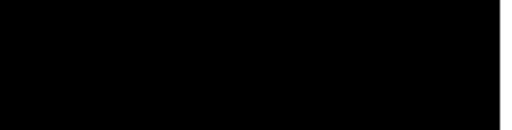
Grade Distribution



Email Class

Search Students...

Can also be accessed through the Classlist

	Name ▼	Current grade	Last visited	Discussions
<input type="checkbox"/>		● 89%	a day ago March 8	4 Threads : 10 Replies
<input type="checkbox"/>		● 97%	an hour ago March 9	5 Threads : 10 Replies

Course Overview Widget

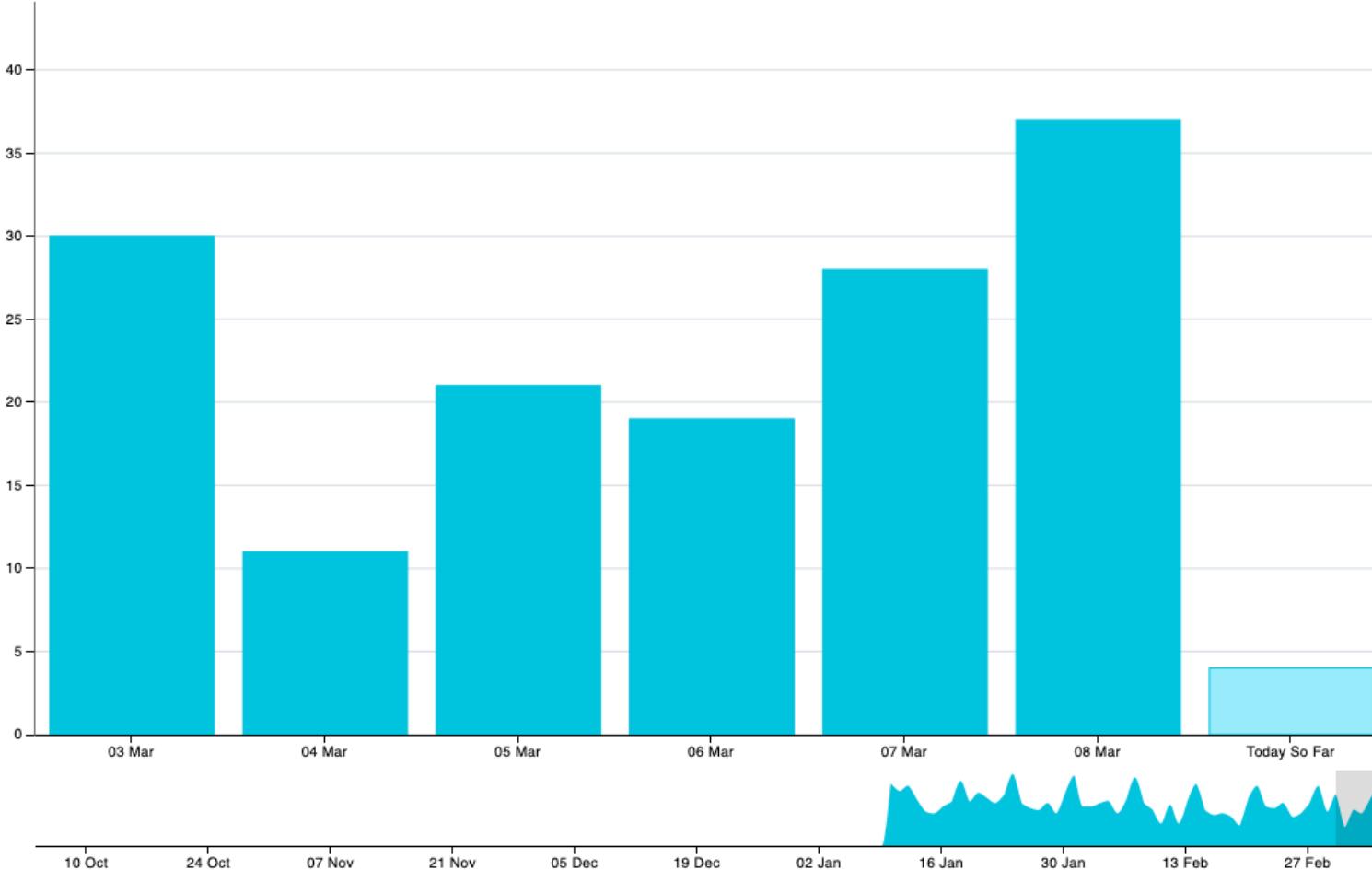
Course Access

Course Access

Number of users who accessed "EDU2022JAL202130 - EDU 2022 JAL Spring 2021 Combined Sections" per day

[Export to XLSX](#)[Export to CSV](#)

Roles included: Student



From March 03, 2021 - March 09, 2021

150

access events occurred

Times shown are in time zone: America/Chicago

Start Date

03/03/2021

End Date

03/09/2021

Role

All Roles

APIUsermanagement

AdminUsersOnly

Administrator

D2LEndUserSupport

ExamSoft SVC

Help Desk

Instructor with Insights

InstructorCascade

RedShelf API v2

Student

Unknown Roles

Course Overview Widget

Tool Access

Tool Access - Course Report

Interactions per tool for EDU 2022 JAL Spring 2021
Combined Sections - EDU2022JAL202130

[Export to XLSX](#)[Export to CSV](#)

Time Span

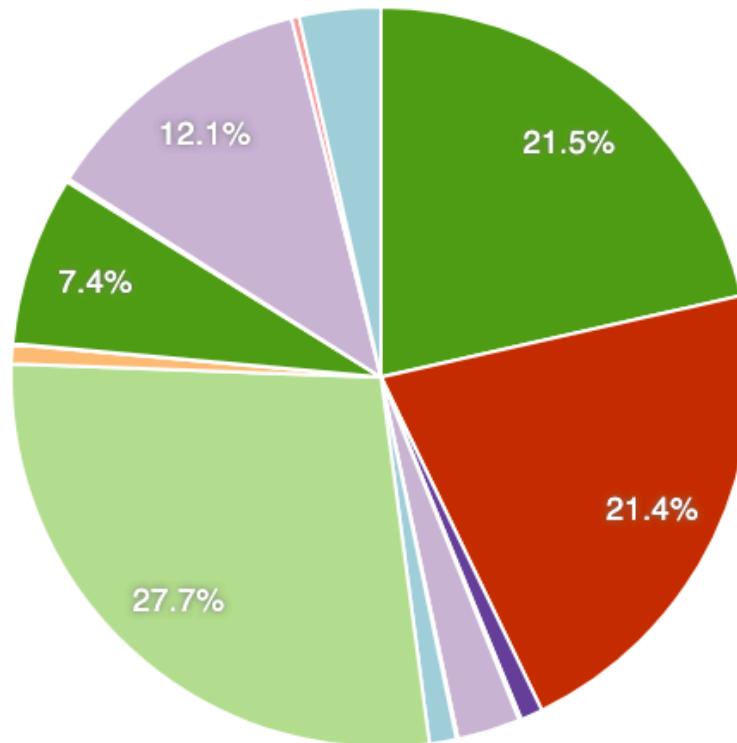
Last 12 months

Role

- All Roles
- Administrator
- AdminUsersOnly
- Instructor with Insights
- InstructorCascade
- Student
- D2LEndUserSupport
- APIusermanagement
- RedShelf API v2
- Help Desk
- ExamSoft SVC
- Unknown Roles

Roles included: Student

March 1, 2020 – March 9, 2021



Data Hub



Reports on the administrative side across the entire institution.

Over 110 specific reports on every interaction and every tool used across the platform.

Brightspace data sets – individualized reports for every tool

Advanced data sets – combine data sets into one report

Insights Portal

Creates visualization for data available in the data hub

Based on role-based permissions to deliver data relevant to you.

Provides data for all your courses.

Pre-built visualizations

Ability for admin to build custom reports

Engagement Dashboard

The Engagement Dashboard contains reports that allow instructors to pinpoint where to intervene by making it easy to identify “at risk” groups or individuals. The ability to drill down to an individual with details on their engagement provide instructors with context to intervene when necessary.

- Overdue Assignments
- Discussion Activity
- System Access
- Current Grade
- Time in Content vs. Grade
- Course Access

Summary View

Results

41

Users returned within results.

Overdue Assignments

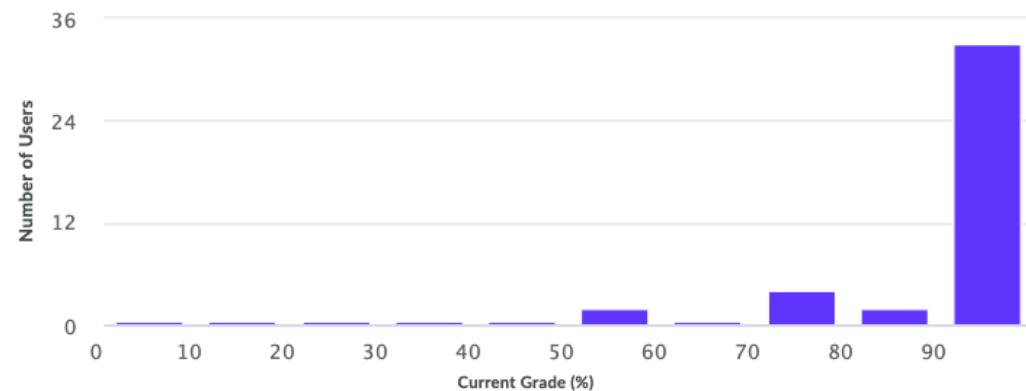
40

Users currently have one or more overdue assignments.

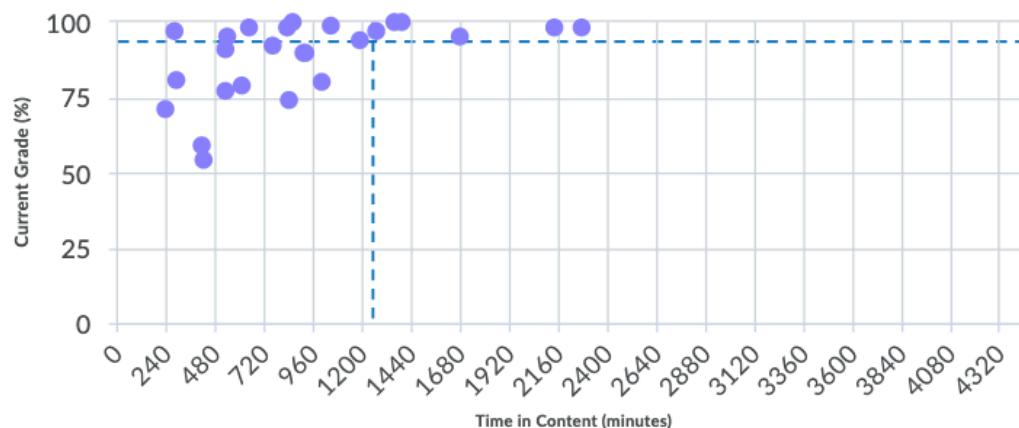
Discussion Activity



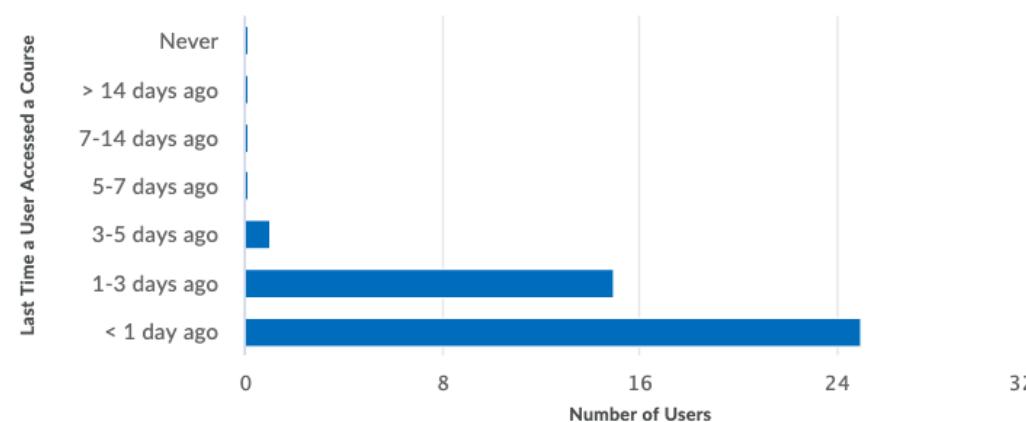
Current Grade



Time in Content vs. Grade



Course Access



Coming Soon

Assessments Quality Dashboard

Measure the quality of the assessment activities such as quizzes, assignments and discussions across Brightspace. Allows users to understand the quality of assessments using quiz and question statistics such as reliability, average grade, and correlation for all quiz and question types (except question pools). This dashboard includes visualizations for quiz and question statistics.

- Quiz Reliability and Quiz Item Analysis
- Average Grade
- Reliability
- Discrimination index
- Point biserial



Self-Serve Analytics

- Self-Serve Analytics (SSA) allows designated users to dig deeper into data and visualizations using Brightspace Data Sets, without the complexity of having to work directly with a data warehouse.
- Users with permissions to a report can launch this feature directly from the Insights Portal to access report authoring or viewing.
- Reports can be set up for departments or colleges by the D2L administrator.

Data Analysis & Course Design Support

For assistance interpreting the data from your course or for course design recommendations, contact:

Dr. Lu Ding, Instructional Designer

Faculty Development and Innovation Center

lding@eiu.edu

Support for D2L

- D2L support page: <http://www.eiu.edu/d2lsolutions>
- For technical support,
 - Call 217-581-HELP (4357),
 - email support@eiu.edu, or
 - contact the Instructional Support Specialist (ISS) for your department.

Q & A



What are your questions?