A Comprehensive Comparison of Leading Learning Management Systems:

Blackboard, Canvas, and D2L

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Table of Contents

Overview 3
Alternative LMSs 4
Market Share of the LMSs 5
Key Considerations 8
Features of the LMSs 10
- Blackboard 10
- Canvas 11
- D2L 11
- Comparison of the Features of LMSs 12

User Experience and Interface of LMSs 14
- Blackboard 14
- Canvas 19
- D2L 26

Technological Advancements 39
Integration Capabilities 43
Training and Transition Support 47
Strategic Alignment of LMS to WPU Mission 50
Product Pricing Summary 56
- Blackboard 56
- Canvas 57
- D2L 58

What's Next? 59
Appendix A. Blackboard Product Pricing 60
Appendix B. Canvas Product Pricing 63

Overview

William Paterson University (WPU) has adopted Blackboard as the Learning Management System, (LMS) since 2002. Blackboard has been used by faculty to share course content, communicate with students, and assess their performance in various modalities including in-person, hybrid, and online courses. WPU has recently migrated from Blackboard original to Blackboard Ultra, which is a significant improvement in terms of functionality and user experience. Upon completion of the migration, the Center for Teaching with Technology (CTT) and Technology Across the Curriculum (TAC) committee discussed current issues being experienced with Blackboard including course and content delivery issues, innovation of technology, and integration with existing systems at WPU.

As the current contract with Blackboard approaches its conclusion in two years, WPU is taking an opportune to reassess the LMS. The looming contract expiration serves as a catalyst for contemplating whether to renew with Blackboard or explore alternative platforms that may better align with evolving educational needs. On January 2024, CTT began the process of reviewing the potential alternative LMS by reviewing online materials and documentations from other institutions and venders.

The decision to transition an LMS is not merely a technical shift but a comprehensive strategic move that influences the entire WPU community. With Blackboard having been a reliable platform in the e-learning context, the prospect of adopting a new platform requires a thorough examination of features, functionalities, institutional requirements, and so on. Blackboard, Canvas, and D2L were identified as leading LMS in higher education institutions. Even though they are recognized as leading LMSs in the US higher education institutes, Canvas and D2L were selected based on the following reasons: Canvas is recognized for its user-friendly interface and seamless integration capabilities, and D2L is known for its flexibility and personalized learning features, emerge as compelling alternatives.

As WPU is at the crossroads of technological evolution, this report delves into the rationale behind considering a transition, the unique features offered by Canvas and D2L in addition to Blackboard, potential challenges associated with migration, and the strategic considerations that WPU must weigh during this crucial decision-making process. The overarching goal is to provide decision-makers, faculty, and stakeholders with a comprehensive understanding of the factors influencing the transition and equip them with the insights needed to make informed choices that align with WPU's vision and strategic plan.

The focus of this report is to explore the prospects and options associated with transitioning from the long-standing Blackboard LMS to alternatives such as Canvas or D2L (Brightspace), particularly as the current contract with Blackboard approaches its expiration in two years.

Alternative LMSs

Blackboard Learning Management System (LMS) has become integral tools for William Paterson University seeking efficient ways to manage courses, engage students, and facilitate collaborative learning. Among the myriad of LMS options available, three major players have consistently dominated the market: Blackboard, Canvas, and D2L (Brightspace). Each of these platforms brings a unique set of features, capabilities, and user experiences, making the choice between them a crucial decision for institutions aiming to deliver effective online education.

Blackboard, a pioneer in the LMS industry and the university's LMS, has maintained a significant market share for several years. As of the latest available data, Blackboard serves millions of users worldwide, including students, educators, and administrators. Its robust features and comprehensive suite of tools have made it a preferred choice for both higher education institutions and K-12 schools. Blackboard Ultra, the latest version of the platform, has undergone significant advancements in terms of user interface, accessibility, and integration capabilities.

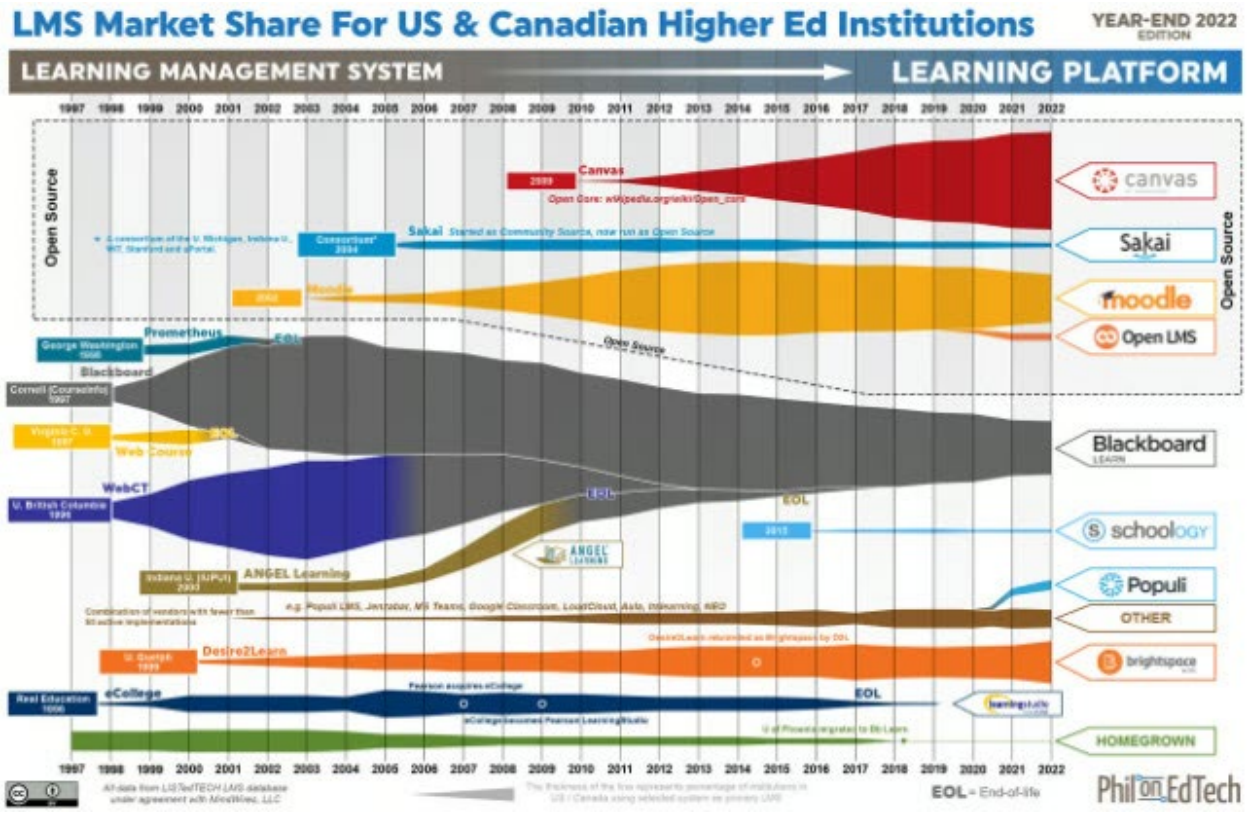
Canvas, developed by Instructure, has rapidly gained popularity, and is now widely used across various educational levels. Canvas boasts an intuitive and user-friendly design, making it a favorite among educators and learners alike. The platform's open architecture and commitment to innovation have contributed to its increasing market share. Canvas has become the LMS of choice for numerous higher education institutions, K-12 schools, and corporate training programs. Its scalability and adaptability have fueled its growth, reflected in the substantial enrollment figures.

D2L, known for its Brightspace LMS, has established a solid presence in the education technology landscape. The platform is recognized for its flexible design, personalized learning capabilities, and commitment to accessibility. D2L serves a diverse range of educational institutions globally, catering to both traditional and non-traditional learning environments. Its emphasis on data-driven insights and adaptive learning features has contributed to its growing enrollment figures and market share.

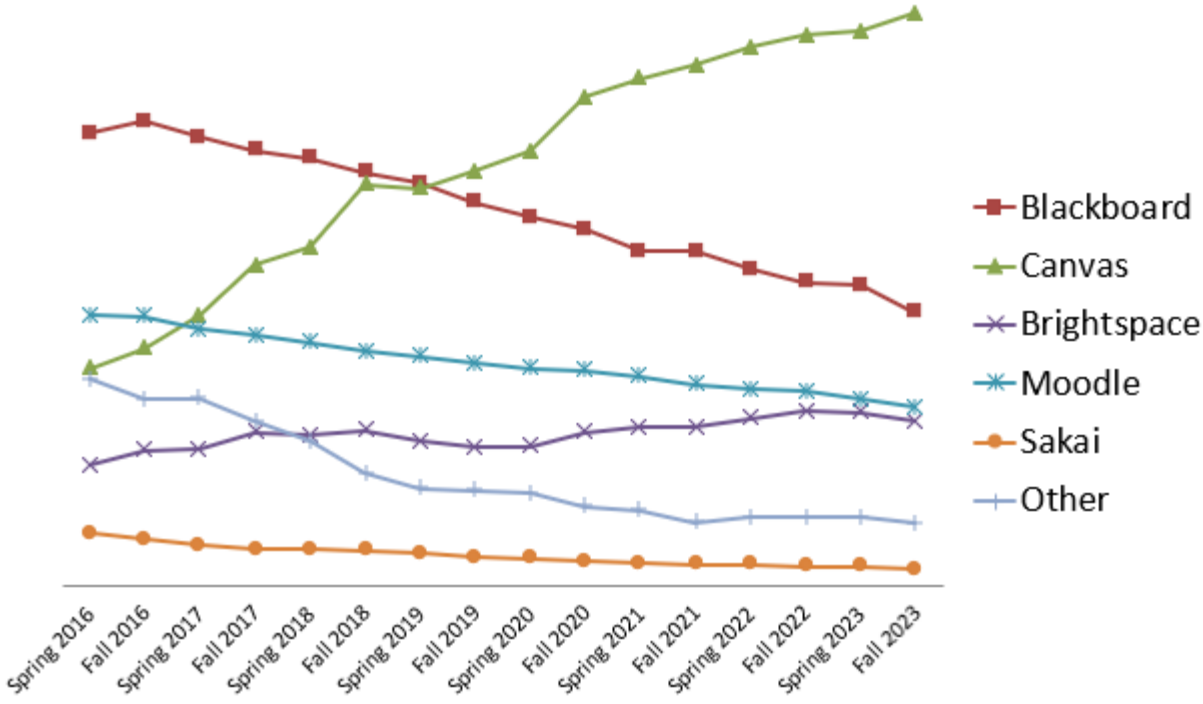
The following sections provide an in-depth exploration of key considerations including the market share and enrollment data, features and functionalities, user experience and interface, and product pricing information for each LMS.

Market Share and Enrollment Data of the LMSs

Phil Hill, edtech consultant, released the year-end 2022 report on the business of LMS (Learning Management System) in the United States and Canada's higher education. (https://onedtech.philhillaa.com/p/state-of-higher-ed-lms-market-for-us-and-canada-year-end-202-edition)



Based on the latest data, Canvas is in the lead with 44% of US & Canadian higher education institutions, followed by Moodle and Blackboard at 21%, and D2L at 17%. Canvas has undeniably dominated the North American LMS market with its consistent growth over the past decade. While it still holds the lead in terms of installed base, its win rate is almost equal to that of D2L Brightspace in 2022. Both Moodle and Blackboard Learn are experiencing a decrease in market share, but Blackboard's decline is more rapid. As a result, Moodle has essentially caught up to Blackboard in terms of institution count.



US HE; all tracked schools, www.edutechnica.com

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Edutechnica.com conducted the Annual LMS Data Update in October 2023 by tracking the LMSs in use by higher education institutions in the United States. Specifically, it identified all LMSs used at scale to actively teach courses. The report selected institutions with 500 student enrollments as its threshold benchmark for public reporting purposes. According to the report, Canvas continued to pick up new institutions at a consistent, steady clip. Similarly, D2L did too even though it had slightly dipped. Blackboard Learn, Moodle, and Sakai all continued pre-existing downward trends.

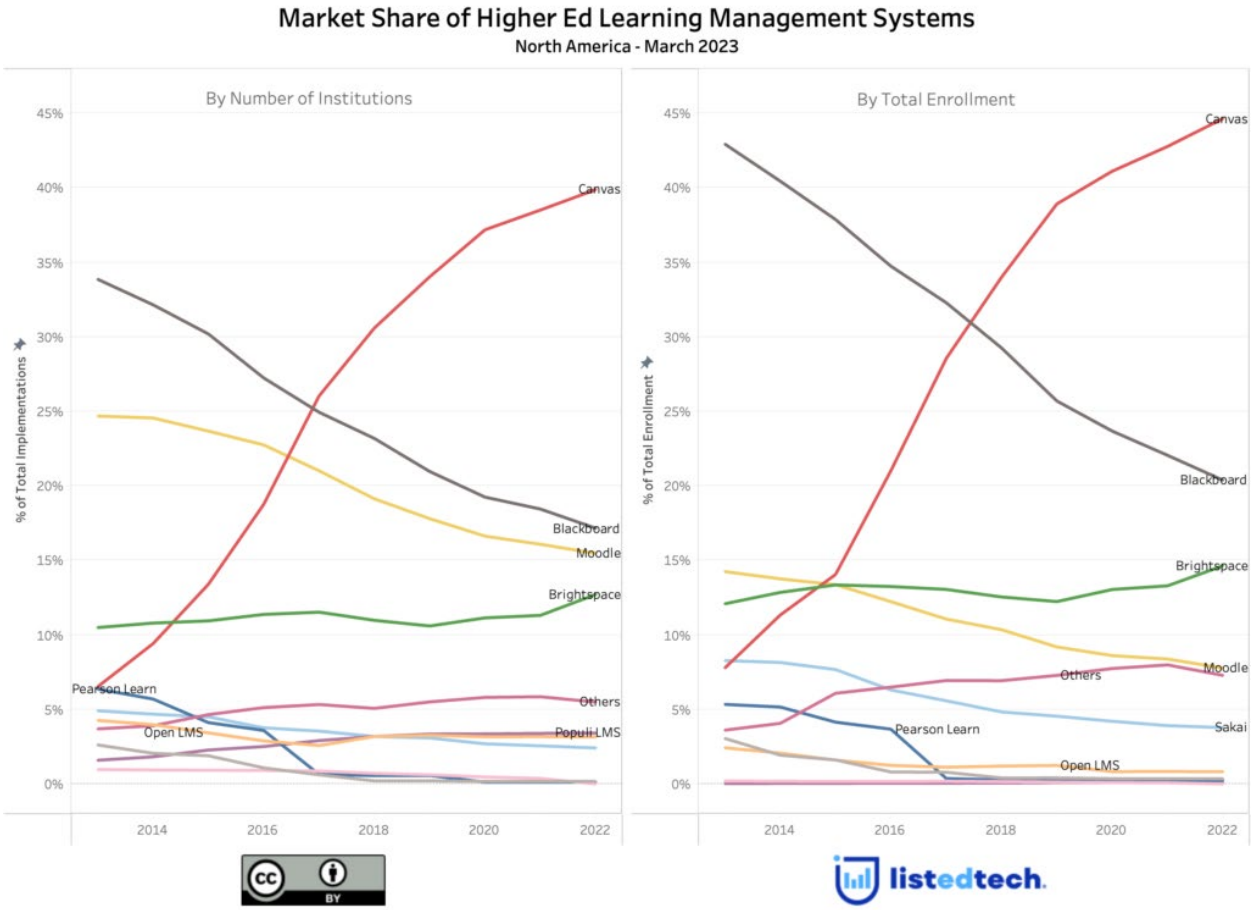
	Blackboard Learn	D2L Brightspace	Instructure Canvas	Moodle	Sakai	Other
Institutions	703	427	1469	453	43	143
	19.9%	12.1%	41.7%	12.8%	1.2%	4.1%
Enrollments	5,846,124	3,779,238	13,510,576	1,757,035	235,902	942,899

500+ FT unduplicated headcount (3523 schools as of fall 2023), www.edutechnica.com

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The report went on to explain this by focusing on enrollment numbers. When we consider market share in relation to enrollment, which is how most LMS companies set their prices for each school, we see a different perspective in terms of market position. It's interesting to note that Canvas, Blackboard Learn, and D2L Brightspace all have a larger share in terms of enrollment compared to institution counts, while Moodle, Open LMS, and Populi have a smaller share. For North America, Canvas has a 41.7% share when scaled by enrollment, followed by Blackboard Learn at 19.9%, D2L Brightspace at 12.1%, and Moodle at 12.8%.

The chart below illustrates the historical market share for North America scaled by enrollment.



(* Source: https://listedtech.com/blog/dual-view-another-perspective-on-the-market-share/)

Key Considerations

Selecting the right Learning Management System (LMS) is a critical decision for the William Paterson University (WPU) community. With several options available, WPU must carefully assess and compare different LMS platforms to ensure they meet the specific needs and objectives along with the strategic plans. This process involves evaluating various key considerations, ranging from features and functionalities to cost implications and strategic alignment with institutional goals. By conducting a comprehensive review of these key evaluation items, WPU can make informed decisions that optimize the digital learning experience for faculty and students.

Here are the key factors in considering Learning Management Systems:

Features and Functionalities: One of the primary considerations when comparing LMS platforms is their features and functionalities. This includes assessing the tools available for content creation, assessment management, communication, collaboration, and administrative tasks. Identifying which features are essential for their educational objectives will help to determine which platform offers the most comprehensive suite of tools to support teaching and learning.

User Experience and Interface: The user experience and interface of an LMS significantly impact its usability and adoption rates among students and educators. A user-friendly interface with intuitive navigation enhances engagement and productivity. Evaluating the ease of use, accessibility, and customization options offered by each platform is critical to ensure a positive user experience for all stakeholders.

Technological Advancements: Technology tools, such as AI and LTIs, etc., are continually evolving, and newer LMS platforms often come equipped with advanced features, enhanced user interfaces, and improved integration capabilities. The decision to transition offers institutions the chance to harness the latest innovations and ensure their digital learning environment remains at the forefront of technological advancements.

Integration Capabilities: Seamless integration with existing systems and external tools is crucial for streamlining workflows and maximizing efficiency. It is important to assess the integration capabilities of LMS platforms, including compatibility with Student Information Systems (SIS), third-party applications, learning tools, and content repositories. This ensures interoperability and facilitates a cohesive digital learning ecosystem.

Training and Transition Support: Adequate training and ongoing support are essential for successful implementation and adoption of an LMS. Considering the availability of training resources, professional development opportunities, and technical support services provided by LMS vendors should be considered. Comprehensive training programs empower educators and administrators to utilize the full potential of the platform, while responsive support mitigates issues and ensures a smooth user experience. Transitioning from one LMS to another requires meticulous planning and comprehensive training programs for educators and administrators. The availability of robust support during the transition period

is crucial to minimize disruptions and ensure a smooth shift from Blackboard to Canvas or D2L.

Strategic Alignment: The decision to transition goes beyond technical considerations; it must align with the strategic goals of the institution. Institutions should assess how the chosen LMS contributes to the William Paterson University's mission, vision, and long-term objectives in terms of providing a modern, adaptive, and effective digital learning environment.

Cost and Sustainability: The cost implications of adopting and maintaining an LMS are significant factors, particularly in terms of licensing fees, implementation costs, and ongoing support expenses. It is imperative to conduct a thorough cost-benefit analysis to assess the total cost of ownership and long-term sustainability of each platform. This involves evaluating not only upfront expenses but also potential hidden costs and scalability options to accommodate future growth and changes in usage. A cost-benefit analysis will guide decision-makers in evaluating the overall financial impact of the transition.

Features of the LMSs

Blackboard

One of the most popular LMS choices in the higher education, Blackboard has ruled this space for years and continues to be one of the leading players. Blackboard comes both as software as a service (SaaS) model and a non-SaaS model. With Blackboard Learn, educators can deliver assessments and track grades, along with the ability to manage both blended and online classes. Blackboard integrates seamlessly with the Student Information System (SIS), and also provides a mobile platform. Blackboard also offers a lot of commercial content through some major publishers, to plug into courses. Besides all this, Blackboard also offers Blackboard Collaborate for collaboration, Blackboard Intelligence with analytics for tracking student retention, enrollment, and engagement, and Blackboard Connect for mass notifications.

Blackboard offers many of the same core functionalities as Canvas. Blackboard can host multiple, customized learning portals to support live and asynchronous training. This is ideal for businesses that want to provide unique learning experiences to different audiences, such as employees, customers, and partners. It also allows you to manage administrators, courses, and learner groups independently.

Blackboard's course-building features also run deep. You can import content via file uploads or simple drag-and-drop functionality. You can also bulk import entire courses from cloud accounts such as Google Drive and Dropbox.

In addition to importing content, Blackboard features a relatively standard toolset for creating learning units, discussions, quizzes, surveys, and other course components. Courses can be easily connected into learning paths. Like Canvas, Blackboard includes a portfolio feature to allow users to showcase their accomplishments, a nice touch for engaging employees in learning.

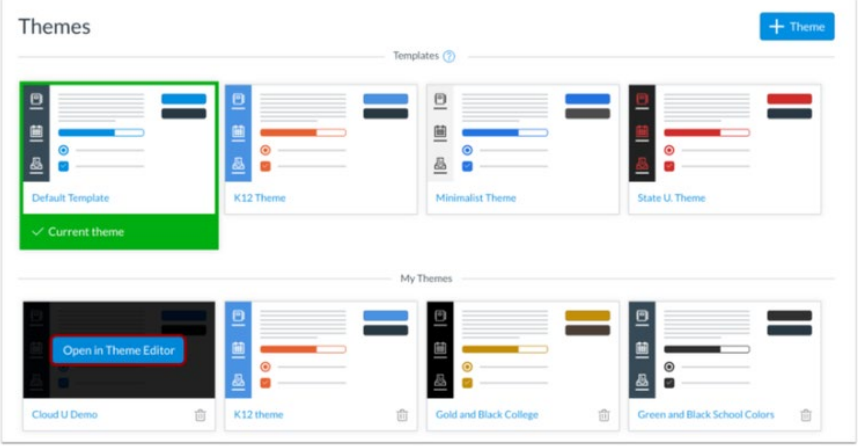
Where Blackboard really stands out is in its administrative capabilities. For example, Blackboard makes it easy to set up parameters such as course prerequisites, minimum grades, time limits, and permitted attempts. You can create an access code to secure tests and even lock the browser during testing to prevent cheating.

These features take on a lot of the work of delivering course content, from moving learners through your curriculum to grading tests and tracking learner progress. Blackboard is equally adept at system administration. As an example, Blackboard comes loaded with no fewer than 10 pre-built roles for system users alone. You can also add custom roles and assign primary and secondary user roles. This allows you to exert very precise control over what users can access and do.

Canvas

Canvas by Instructure has recently gained a lot of traction with higher education. It boasts a modern and easy-to-use interface along with native web hosting. This tool has taken cue from both Blackboard and Moodle and tries to fill in on some gaps left by these two leading players. This LMS places immense emphasis on making communication easier and faster between educators and learners. Setting up Canvas is straightforward and pretty simple. Canvas offers a comprehensive dashboard and allows educators to offer feedback, merge various channels of education, and track students' progress seamlessly. Some of its other compelling features include open API, customizable user profiles, LTI integrations, and collaborative workspaces. For students, it enables them to submit papers and interact with their learning material on mobile devices. Additionally, they can also combine their Canvas LMS account with their social media accounts. It must be noted that extensive third-party integrations support Canvas.

Canvas lets instructors host and brand multiple learning portals independently, with built-in themes that are click-button easy. Instructors can also customize the system using custom cascading style sheets (CSS) or JavaScript.



Canvas has outstanding course-building tools for building immersive, media-rich course modules. You can easily import or create whatever content you need, including documents, media, assessments, and embedded web pages. You can also import content directly from systems such as Moodle and D2L, a great tool if you have an existing body of courses to offer. Canvas also provides unique tools to foster interactive learning that go far beyond polls and quizzes. Social learning tools such as comments, discussions, chats, and collaborations integrate seamlessly into lessons. One unique tool, Canvas Studio, allows students to comment directly within the timeline of a video. Canvas pauses the video, bookmarks the comment, and resumes playing when the student is done. Other students can easily see the comments and respond.

D2L

D2L Brightspace is an integrated system that combines education resources with advanced analytics and assessment features. It houses a pleasing tiled interface, seamlessly integrates

with Microsoft Office 365, and also provides LTI integrations with third-party systems. Brightspace also supports more granular roles, compared to most competitors, and offers extensive support for competency-based education. When we talk about D2L, we can't afford not to talk about two of its exceptional features - Release Conditions and Intelligent Agents. Using Release Conditions, an instructor can have content appear to a student only after certain conditions have been met, like only after the student has viewed the previous topic. Intelligent Agents let educators trigger specific actions based on student behavior.

Key features include:

- Allows creation of engaging and informative learning with course authoring
- Comes with a learning administration for efficiently managing all aspects of the learning process
- Works with high-quality and diverse educational materials like multimedia resources and interactive content
- Offers learners' progress monitoring and certifications awarding
- Delivers in-depth data analysis and insights for more informed decisions
- Has the option to create assignments to reinforce student understanding and encourage active participation
- Ensures adherence to regulatory and organizational requirements via compliance management
- Comes with comprehensive and customizable reporting functionalities
- Has a user-friendly and responsive design accessible on mobile devices
- Offers social learning that facilitates collaborative learning experiences through social interactions and discussions

Comparison of the Features of LMSs

Feature	Blackboard Ultra	Canvas	D2L (Brightspace)
User Interface	Modern and responsive. AI-driven personalization for a tailored experience. Includes adaptive learning pathways.	Clean and user-friendly with an intuitive layout. AI-driven recommendations for personalized content.	Clean and intuitive interface. AI-powered predictive analytics for learner success.
Course Design	Customizable course templates. AI-assisted content suggestions based on learner performance and preferences.	Intuitive drag-and-drop interface. Machine learning algorithms for adaptive content delivery.	Flexible design options. AI-driven intelligent agents for automated course adjustments.
Communication Tools	Announcement system, discussion boards, and messaging features. AI-driven sentiment analysis for communication insights.	Announcement system, discussion boards, messaging, and real-time chat. AI-enhanced communication analytics.	Announcements, discussions, and messaging tools. AI-powered language processing for communication efficiency.

Feature	Blackboard Ultra	Canvas	D2L (Brightspace)
Assessment	Supports various assessment types including tests, assignments, and rubrics. AI-driven plagiarism detection and assessment analytics.	Robust quiz engine, assignments with multiple submission types. AI-based auto-grading and adaptive assessments.	Quizzes, assignments, discussions. AI-supported grading assistance and personalized feedback.
Collaboration	Group work, wikis, blogs, and collaborative tools. AI-driven collaboration analytics for tracking team dynamics.	Collaboration features include group spaces, Google Docs integration. AI-assisted collaboration insights.	Group work, discussion forums, collaborative tools. AI-enhanced collaborative filtering for group interactions.
Mobile Support	Mobile app available for iOS and Android devices. AI-driven mobile learning with personalized recommendations.	Mobile-friendly design accessible on various devices. Canvas Teacher app for educators. AI-enhanced mobile interface.	Mobile app available for iOS and Android platforms. Responsive design with AI-driven adaptive mobile content.
Integration	Integrates with third-party tools and external applications. LTI support. AI-driven integration recommendations based on user preferences.	Extensive integration options, including Google Drive, Microsoft 365. AI-assisted integration customization for seamless workflows.	Integrates with various systems through APIs. Supports LTI and custom integrations. AI-powered integration optimization.
Analytics	Robust analytics and reporting tools for tracking student performance. AI-driven predictive analytics for early intervention.	Analytics dashboard provides insights into course and student activity. AI-enhanced analytics for actionable insights.	Data and analytics tools for monitoring learner progress. AI-powered analytics for adaptive learning pathways.
Accessibility	ADA compliant with accessibility features for diverse learners. AI-driven accessibility enhancements for personalized accessibility.	WCAG 2.0 compliant, prioritizing accessibility for all users. AI-supported accessibility features for inclusive learning.	Complies with WCAG 2.0 accessibility standards. AI-assisted accessibility adjustments for diverse learner needs.
Support	24/7 support available, including phone, email, and online help. AI-powered virtual assistants for automated support.	24/7 support available with a comprehensive help center and community forums. AI-driven support ticket resolution.	24/7 support available, including phone, email, and live chat. AI-based support analytics for proactive issue resolution.
Cost	Subscription-based pricing model. Costs may vary based on institution size and features. AI-driven cost optimization based on usage patterns and needs.	Subscription-based pricing with tiered plans. Pricing based on institution size and requirements. AI-assisted cost analysis for optimal budgeting.	Custom pricing based on institution size, needs, and specific features. AI-driven pricing recommendations for cost-effective solutions.

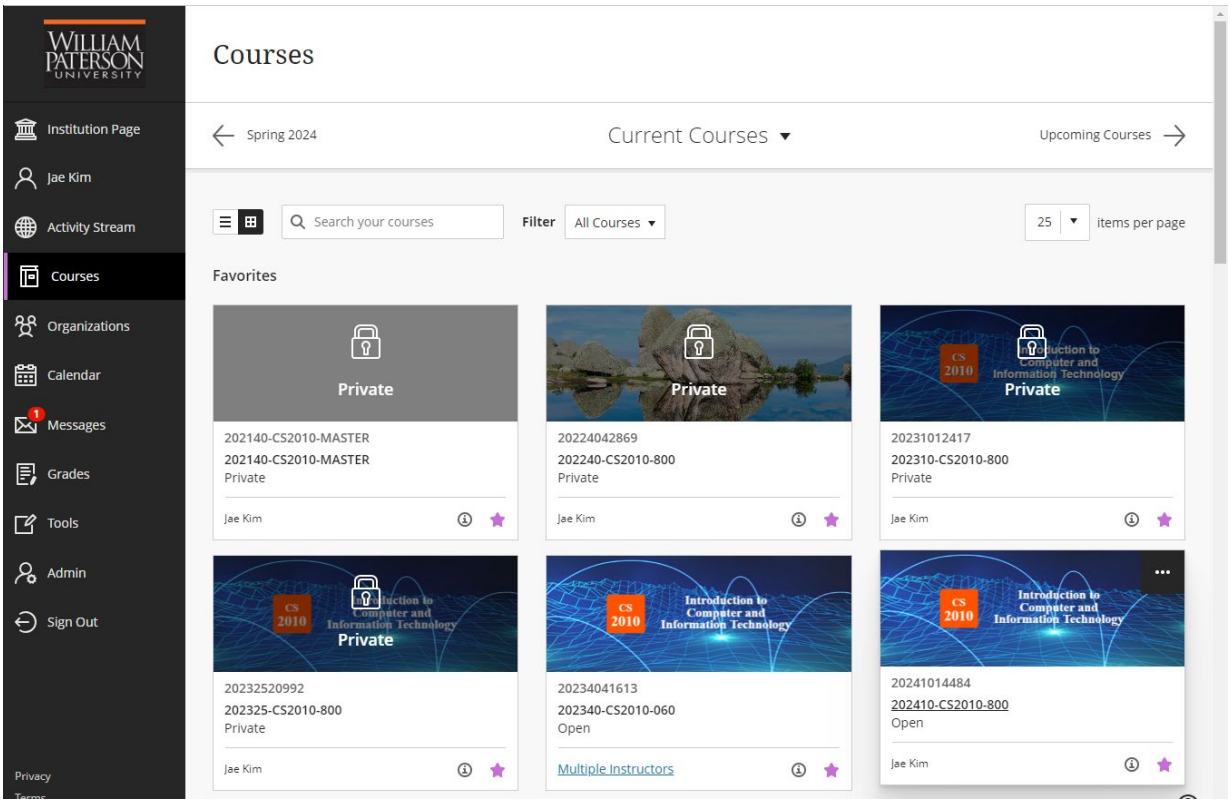
User Experience and Interface

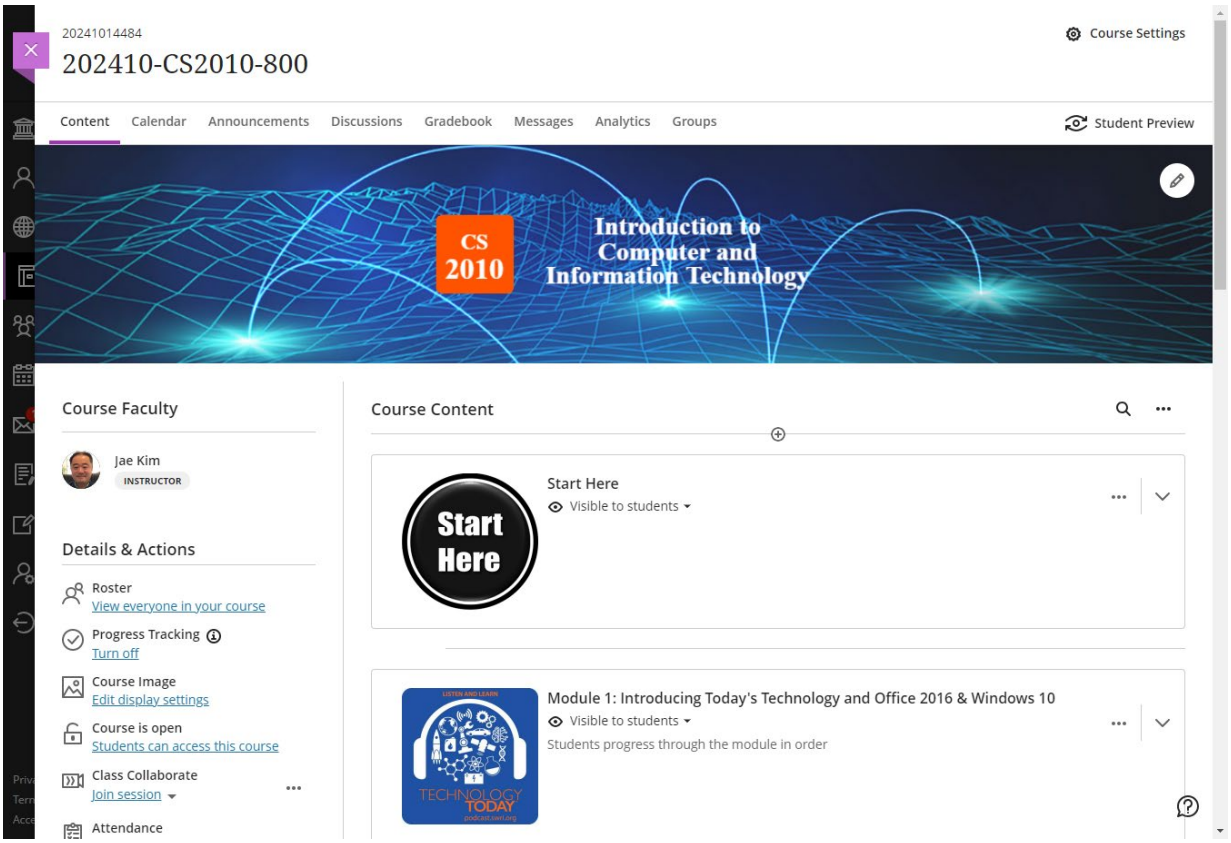
The user experience (UX) and interface design of Learning Management Systems (LMS) play a pivotal role in shaping the effectiveness and adoption of these platforms. A seamless, intuitive interface coupled with a user-centric design enhances engagement, facilitates navigation, and fosters a positive learning environment for both educators and students. For this reason, it is important to explore the user experience and interface features of three prominent LMS platforms: Blackboard, Canvas, and D2L (Desire2Learn). Through an in-depth examination of their UX principles, interface design elements, customization options, and accessibility features, the goal of this section is to provide WPU community with valuable insights to inform their decision-making process when selecting an LMS.

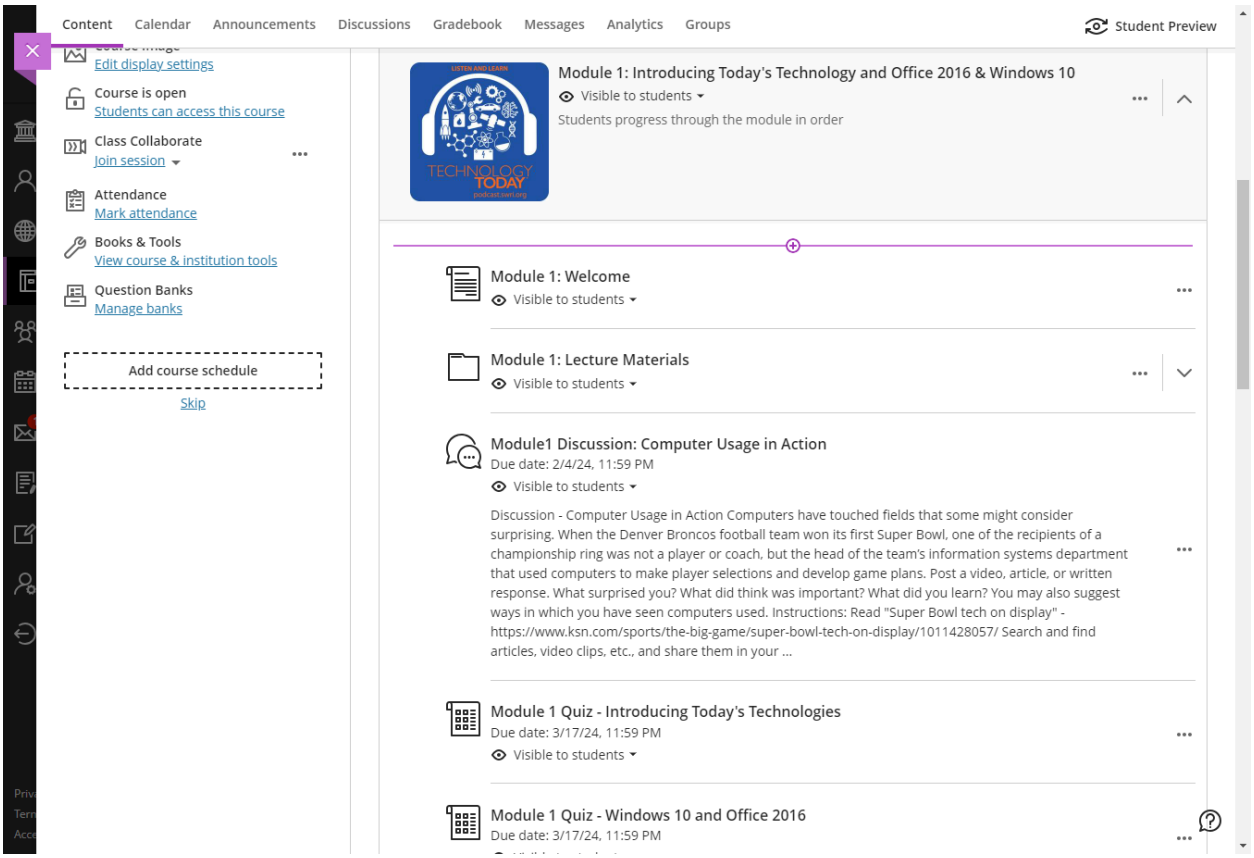
The user experience and interface design of Blackboard, Canvas, and D2L play a critical role in shaping the effectiveness and adoption of these LMS platforms. While each platform offers unique strengths and considerations, including navigation, customization options, accessibility features, and mobile responsiveness, it is essential for WPU to carefully evaluate these factors in alignment with the mission and strategic plan. By conducting a comprehensive analysis of the user experience and interface features of each platform, WPU can make informed decisions that optimize the digital learning experience for students and foster a culture of continuous improvement and innovation in education.

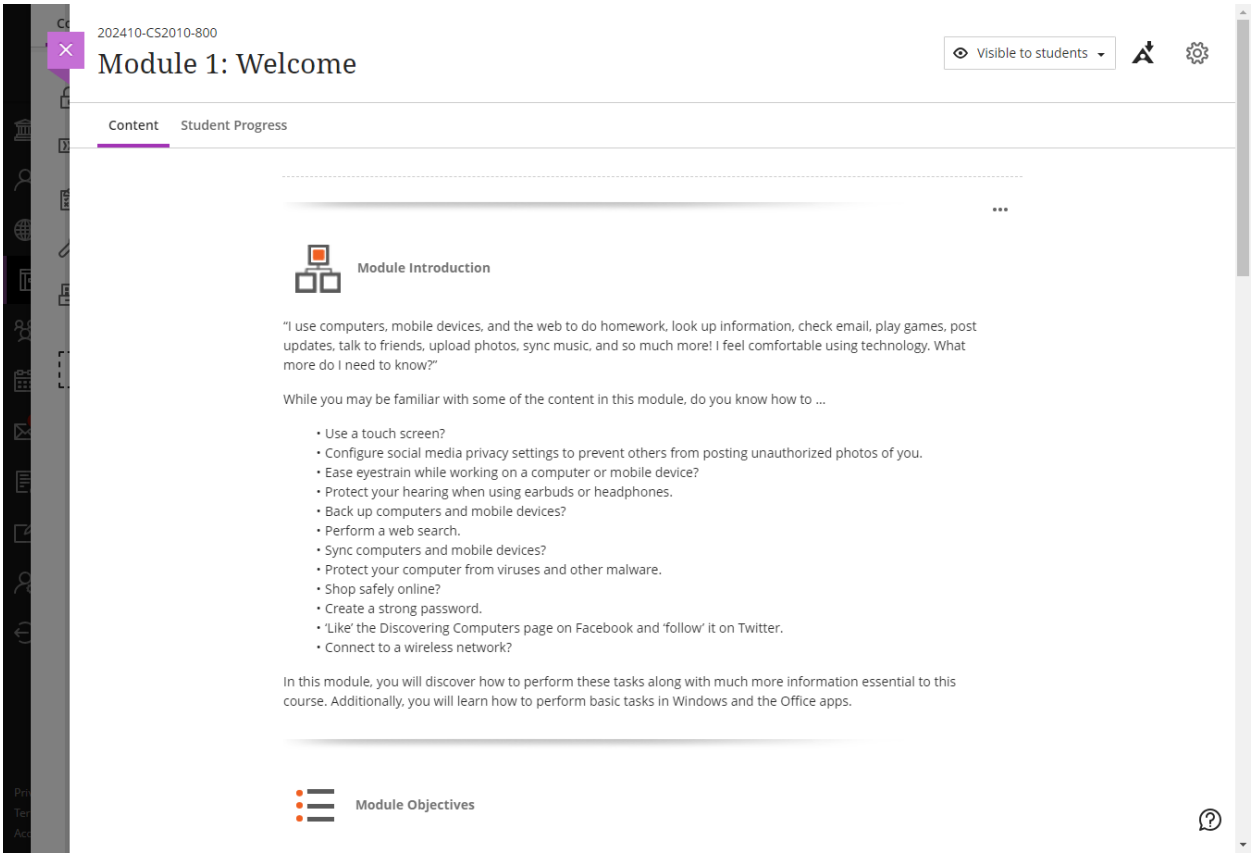
Blackboard

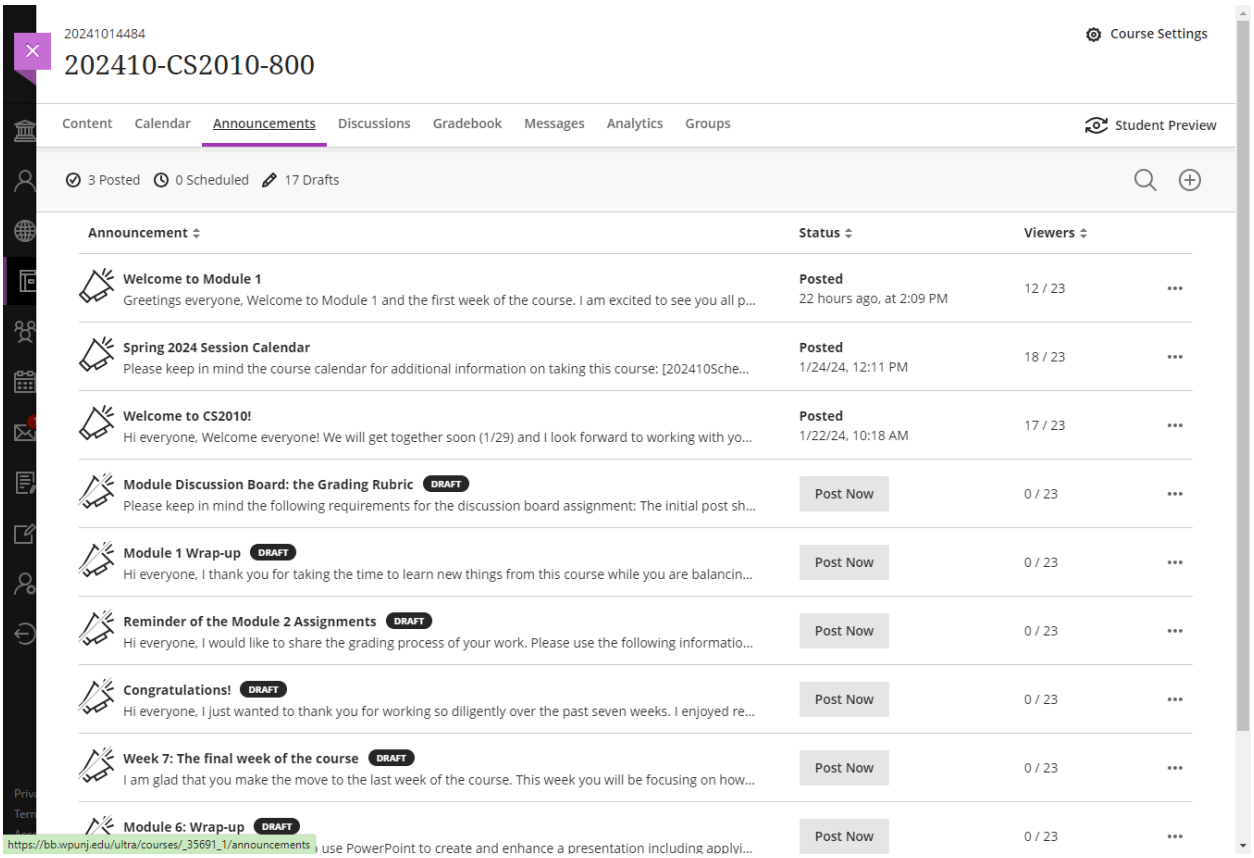
Blackboard, a veteran player in the LMS market, has long been recognized for its robust feature set and extensive functionality. However, its user experience and interface have undergone significant evolution over the years in response to changing user expectations and technological advancements. The latest iterations of Blackboard boast a modern, responsive interface designed to streamline workflows and enhance usability. Key features include customizable dashboards, drag-and-drop content creation tools, and mobile-friendly layouts. Blackboard's UX prioritizes simplicity and efficiency, with intuitive navigation menus and clear design cues guiding users through the platform's various modules and functionalities. Accessibility is also a focal point, with support for screen readers, keyboard navigation, and alternative text for multimedia content ensuring inclusivity for all users.

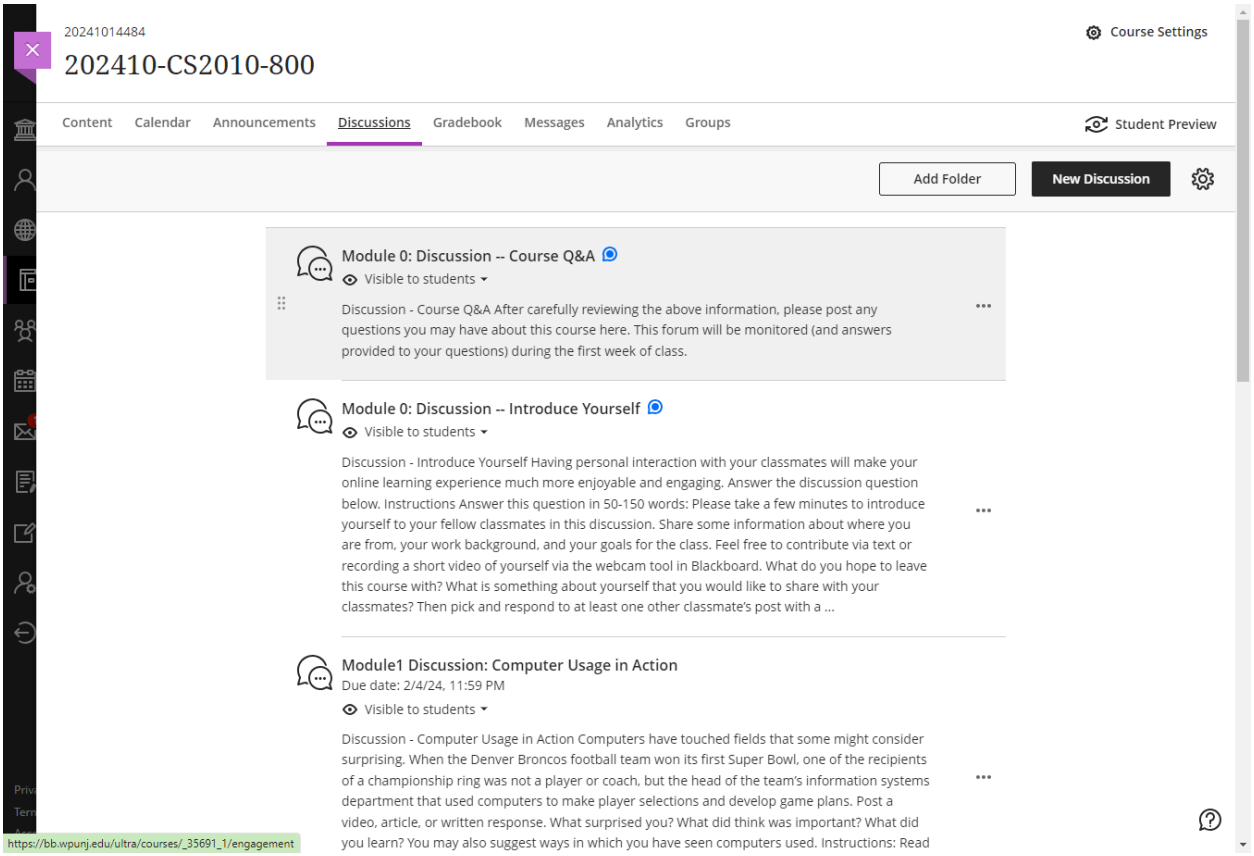

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Jae Kim
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Courses
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Messages
Grades
Tools
Admin
Sign Out
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Spring 2024
Current Courses
Upcoming Courses
Search your courses
Filter
All Courses
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Jae Kim
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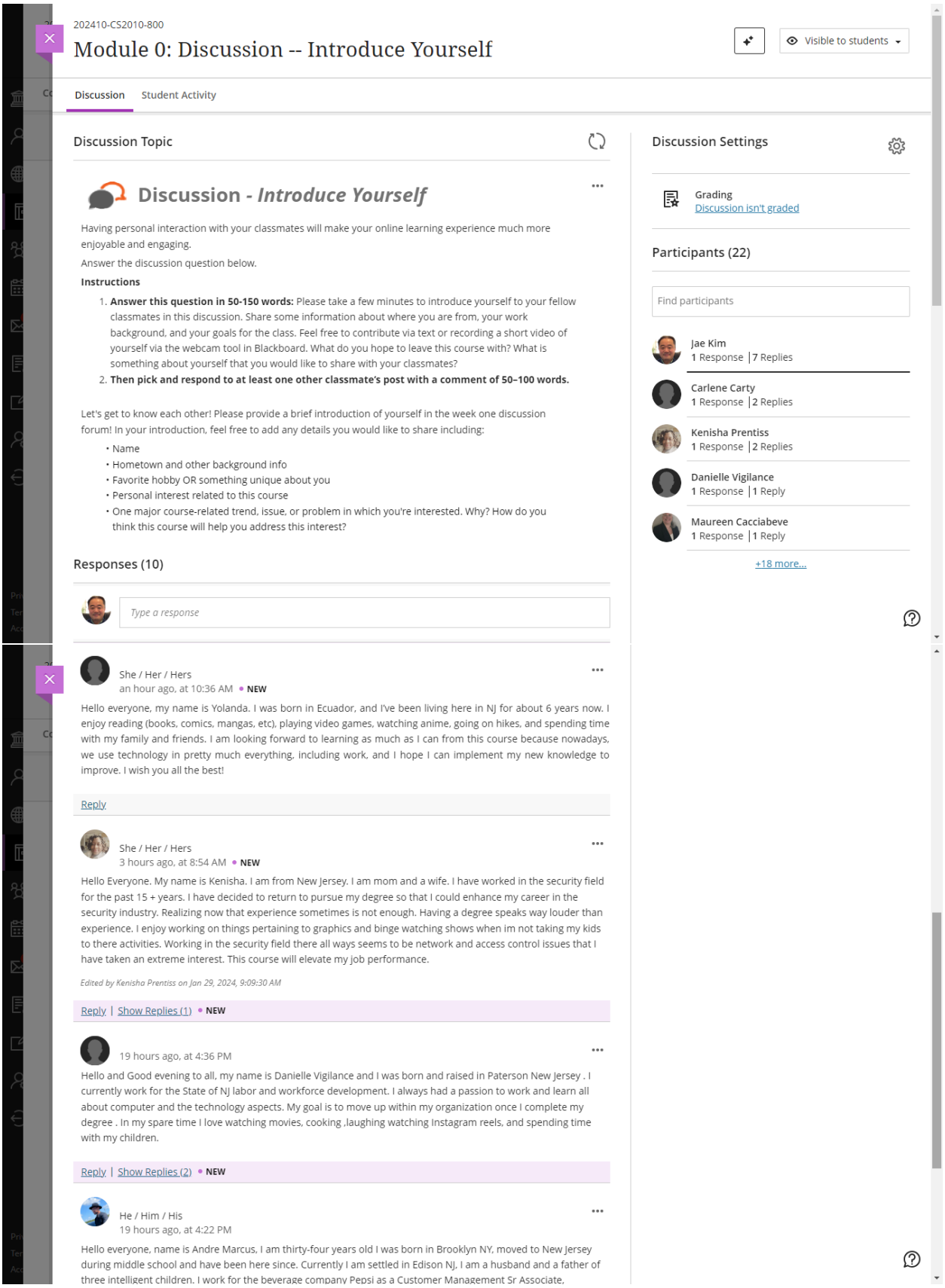

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Course Settings
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Announcements
Discussions
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Messages
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Groups
Student Preview
CS 2010
Introduction to Computer and Information Technology
Course Faculty
Jae Kim
INSTRUCTOR
Details & Actions
Roster
View everyone in your course
Progress Tracking
Turn off
Course Image
Edit display settings
Course is open
Students can access this course
Class Collaborate
Join session
Attendance
Course Content
Start Here
Visible to students
Module 1: Introducing Today's Technology and Office 2016 & Windows 10
Visible to students
Students progress through the module in order

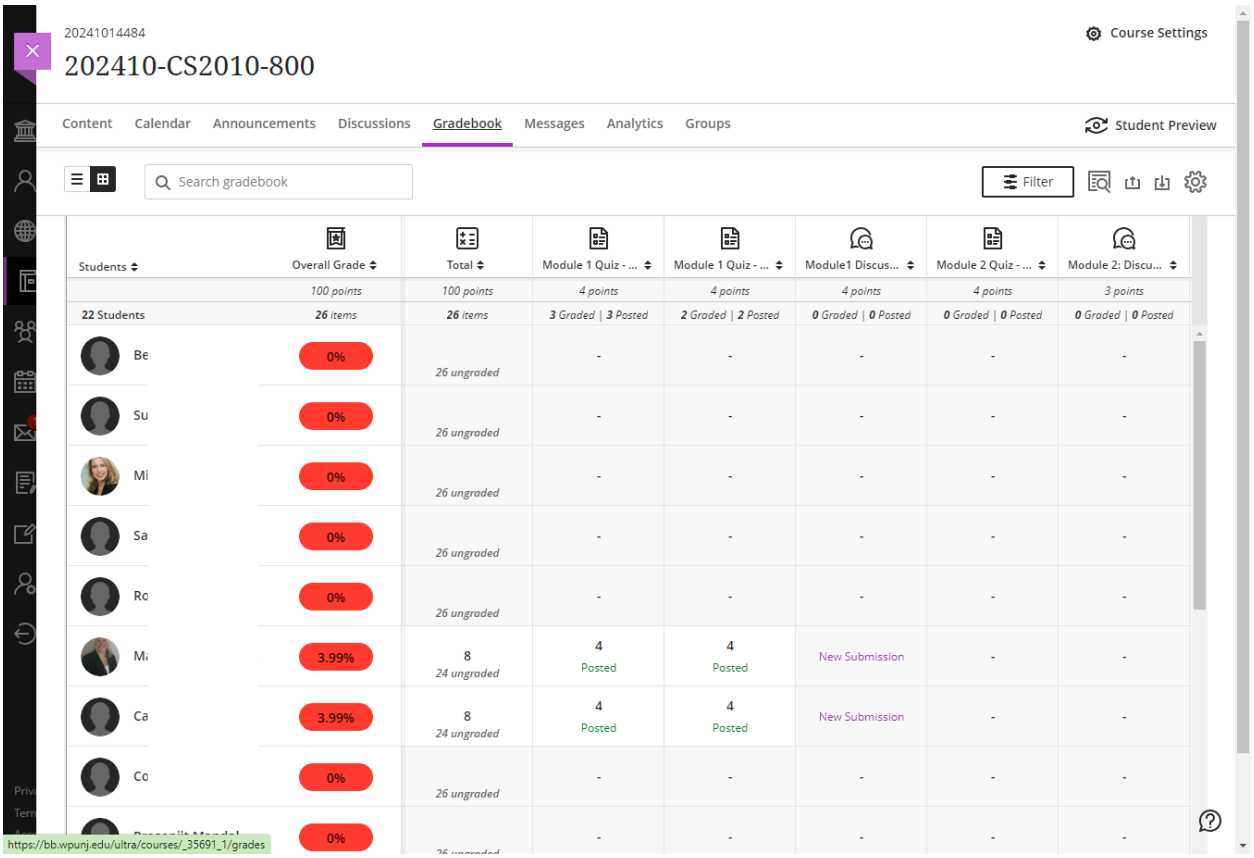

Content
Calendar
Announcements
Discussions
Gradebook
Messages
Analytics
Groups
Student Preview
Edit display settings
Course is open
Students can access this course
Class Collaborate
Join session
Attendance
Mark attendance
Books & Tools
View course & institution tools
Question Banks
Manage banks
Add course schedule
Skip
Module 1: Introducing Today's Technology and Office 2016 & Windows 10
Visible to students
Students progress through the module in order
Module 1: Welcome
Visible to students
Module 1: Lecture Materials
Visible to students
Module1 Discussion: Computer Usage in Action
Due date: 2/4/24, 11:59 PM
Visible to students
Discussion - Computer Usage in Action Computers have touched fields that some might consider surprising. When the Denver Broncos football team won its first Super Bowl, one of the recipients of a championship ring was not a player or coach, but the head of the team's information systems department that used computers to make player selections and develop game plans. Post a video, article, or written response. What surprised you? What did think was important? What did you learn? You may also suggest ways in which you have seen computers used. Instructions: Read "Super Bowl tech on display" - https://www.ksn.com/sports/the-big-game/super-bowl-tech-on-display/1011428057/ Search and find articles, video clips, etc., and share them in your ...
Module 1 Quiz - Introducing Today's Technologies
Due date: 3/17/24, 11:59 PM
Visible to students
Module 1 Quiz - Windows 10 and Office 2016
Due date: 3/17/24, 11:59 PM


202410-CS2010-800
Module 1: Welcome
Visible to students
Content
Student Progress
Module Introduction
"I use computers, mobile devices, and the web to do homework, look up information, check email, play games, post updates, talk to friends, upload photos, sync music, and so much more! I feel comfortable using technology. What more do I need to know?"
While you may be familiar with some of the content in this module, do you know how to ...
• Use a touch screen?
• Configure social media privacy settings to prevent others from posting unauthorized photos of you.
• Ease eyestrain while working on a computer or mobile device?
• Protect your hearing when using earbuds or headphones.
• Back up computers and mobile devices?
• Perform a web search.
• Sync computers and mobile devices?
• Protect your computer from viruses and other malware.
• Shop safely online?
• Create a strong password.
• 'Like' the Discovering Computers page on Facebook and 'follow' it on Twitter.
• Connect to a wireless network?
In this module, you will discover how to perform these tasks along with much more information essential to this course. Additionally, you will learn how to perform basic tasks in Windows and the Office apps.
Module Objectives


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202410-CS2010-800
Course Settings
Content
Calendar
Announcements
Discussions
Gradebook
Messages
Analytics
Groups
Student Preview
3 Posted
0 Scheduled
17 Drafts
Announcement
Status
Viewers
Welcome to Module 1
Greetings everyone, Welcome to Module 1 and the first week of the course. I am excited to see you all p...
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22 hours ago, at 2:09 PM
12 / 23
Spring 2024 Session Calendar
Please keep in mind the course calendar for additional information on taking this course: [202410Sche...
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1/24/24, 12:11 PM
18 / 23
Welcome to CS2010!
Hi everyone, Welcome everyone! We will get together soon (1/29) and I look forward to working with yo...
Posted
1/22/24, 10:18 AM
17 / 23
Module Discussion Board: the Grading Rubric
DRAFT
Please keep in mind the following requirements for the discussion board assignment: The initial post sh...
Post Now
0 / 23
Module 1 Wrap-up
DRAFT
Hi everyone, I thank you for taking the time to learn new things from this course while you are balancin...
Post Now
0 / 23
Reminder of the Module 2 Assignments
DRAFT
Hi everyone, I would like to share the grading process of your work. Please use the following informatio...
Post Now
0 / 23
Congratulations!
DRAFT
Hi everyone, I just wanted to thank you for working so diligently over the past seven weeks. I enjoyed re...
Post Now
0 / 23
Week 7: The final week of the course
DRAFT
I am glad that you make the move to the last week of the course. This week you will be focusing on how...
Post Now
0 / 23
Module 6: Wrap-up
DRAFT
use PowerPoint to create and enhance a presentation including applyi...
Post Now
0 / 23
https://bb.wpunj.edu/ultra/courses/_35691_1/announcements


20241014484
202410-CS2010-800
Course Settings
Content
Calendar
Announcements
Discussions
Gradebook
Messages
Analytics
Groups
Student Preview
Add Folder
New Discussion
Module 0: Discussion -- Course Q&A
Visible to students
Discussion - Course Q&A After carefully reviewing the above information, please post any questions you may have about this course here. This forum will be monitored (and answers provided to your questions) during the first week of class.
Module 0: Discussion -- Introduce Yourself
Visible to students
Discussion - Introduce Yourself Having personal interaction with your classmates will make your online learning experience much more enjoyable and engaging. Answer the discussion question below. Instructions Answer this question in 50-150 words: Please take a few minutes to introduce yourself to your fellow classmates in this discussion. Share some information about where you are from, your work background, and your goals for the class. Feel free to contribute via text or recording a short video of yourself via the webcam tool in Blackboard. What do you hope to leave this course with? What is something about yourself that you would like to share with your classmates? Then pick and respond to at least one other classmate's post with a ...
Module1 Discussion: Computer Usage in Action
Due date: 2/4/24, 11:59 PM
Visible to students
Discussion - Computer Usage in Action Computers have touched fields that some might consider surprising. When the Denver Broncos football team won its first Super Bowl, one of the recipients of a championship ring was not a player or coach, but the head of the team's information systems department that used computers to make player selections and develop game plans. Post a video, article, or written response. What surprised you? What did think was important? What did you learn? You may also suggest ways in which you have seen computers used. Instructions: Read
https://bb.wpunj.edu/ultra/courses/_35691_1/engagement


202410-CS2010-800
Module 0: Discussion -- Introduce Yourself
Visible to students
Discussion
Student Activity
Discussion Topic
Discussion - Introduce Yourself
Having personal interaction with your classmates will make your online learning experience much more enjoyable and engaging.
Answer the discussion question below.
Instructions
1. Answer this question in 50-150 words: Please take a few minutes to introduce yourself to your fellow classmates in this discussion. Share some information about where you are from, your work background, and your goals for the class. Feel free to contribute via text or recording a short video of yourself via the webcam tool in Blackboard. What do you hope to leave this course with? What is something about yourself that you would like to share with your classmates?
2. Then pick and respond to at least one other classmate's post with a comment of 50–100 words.
Let's get to know each other! Please provide a brief introduction of yourself in the week one discussion forum! In your introduction, feel free to add any details you would like to share including:
• Name
• Hometown and other background info
• Favorite hobby OR something unique about you
• Personal interest related to this course
• One major course-related trend, issue, or problem in which you're interested. Why? How do you think this course will help you address this interest?
Responses (10)
Type a response
Discussion Settings
Grading
Discussion isn't graded
Participants (22)
Find participants
Jae Kim
1 Response | 7 Replies
Carlene Carty
1 Response | 2 Replies
Kenisha Prentiss
1 Response | 2 Replies
Danielle Vigilance
1 Response | 1 Reply
Maureen Cacciabeve
1 Response | 1 Reply
+18 more...
She / Her / Hers
an hour ago, at 10:36 AM • NEW
Hello everyone, my name is Yolanda. I was born in Ecuador, and I've been living here in NJ for about 6 years now. I enjoy reading (books, comics, mangas, etc), playing video games, watching anime, going on hikes, and spending time with my family and friends. I am looking forward to learning as much as I can from this course because nowadays, we use technology in pretty much everything, including work, and I hope I can implement my new knowledge to improve. I wish you all the best!
Reply
She / Her / Hers
3 hours ago, at 8:54 AM • NEW
Hello Everyone. My name is Kenisha. I am from New Jersey. I am mom and a wife. I have worked in the security field for the past 15 + years. I have decided to return to pursue my degree so that I could enhance my career in the security industry. Realizing now that experience sometimes is not enough. Having a degree speaks way louder than experience. I enjoy working on things pertaining to graphics and binge watching shows when im not taking my kids to there activities. Working in the security field there all ways seems to be network and access control issues that I have taken an extreme interest. This course will elevate my job performance.
Edited by Kenisha Prentiss on Jan 29, 2024, 9:09:30 AM
Reply | Show Replies (1) • NEW
19 hours ago, at 4:36 PM
Hello and Good evening to all, my name is Danielle Vigilance and I was born and raised in Paterson New Jersey . I currently work for the State of NJ labor and workforce development. I always had a passion to work and learn all about computer and the technology aspects. My goal is to move up within my organization once I complete my degree . In my spare time I love watching movies, cooking ,laughing watching Instagram reels, and spending time with my children.
Reply | Show Replies (2) • NEW
He / Him / His
19 hours ago, at 4:22 PM
Hello everyone, name is Andre Marcus, I am thirty-four years old I was born in Brooklyn NY, moved to New Jersey during middle school and have been here since. Currently I am settled in Edison NJ, I am a husband and a father of three intelligent children. I work for the beverage company Pepsi as a Customer Management Sr Associate,



Canvas

Canvas, developed by Instructure, has emerged as a leading contender in the LMS market, renowned for its user-centric design philosophy and innovative approach to interface customization. Canvas places a strong emphasis on user experience, with a clean, minimalist interface that prioritizes ease of use and accessibility. The platform's intuitive navigation system, featuring breadcrumb trails and contextual menus, empowers users to effortlessly navigate between courses, assignments, and communication channels. Canvas also offers extensive customization options, allowing educators to tailor the interface to suit their preferences and instructional style. From personalized course themes to configurable course layouts, Canvas enables educators to create engaging, visually appealing learning environments that resonate with their students. Furthermore, Canvas's mobile app extends the platform's usability beyond the confines of traditional desktop environments, enabling seamless access to course materials and communication tools on-the-go.

CANVAS NETWORK

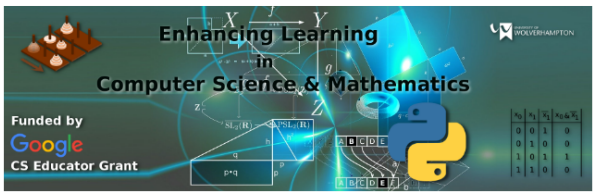
Account
Dashboard
Courses
Calendar
Inbox
History
Help

PD-0141-ENHANCING-LEARNING-COMPUTER-SCIENC...

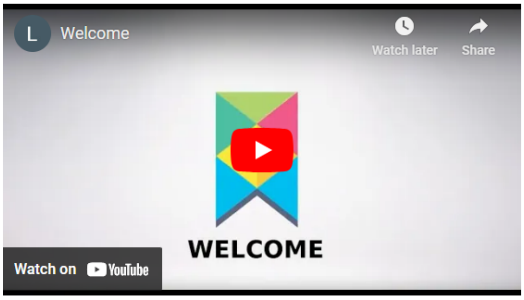
2020-Q2

Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges

Enhancing Learning in Computer Science & Mathematics Using Cross Disciplinary Projects



Welcome to the homepage of **Enhancing Learning in Computer Science & Mathematics.** This MOOC is made possible by Google under its Educator PD Grant Scheme.



Course Aim

This course is designed around a collection of problems which straddle the vague

View Course Stream
Drop this Course
View Course Calendar
View Course Notifications

To Do

Nothing for now

Recent Feedback

Nothing for now

Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges

Course Aim

This course is designed around a collection of problems which straddle the vague boundary between computer science and mathematics. Each problem includes worksheets which are ready to be used immediately in the classroom. The problems are broken up into introductory, intermediate and advanced categories and are suitable to use with students studying computer science, mathematics or both. The introductory problems are designed to be suitable for students aged 12-14, the intermediate problems are designed to be suitable for students aged 14-16 and the advanced problems are designed to be suitable for students aged 16-18. You'll find more detailed information about the course on the Course Overview page.

Course Achievements

After you successfully complete the quiz associated to each problem you will receive a badge. Successful completion of all of the problems will earn you a certificate of completion. You'll find more information about the badges and certificate on the Badges & Certificate page.

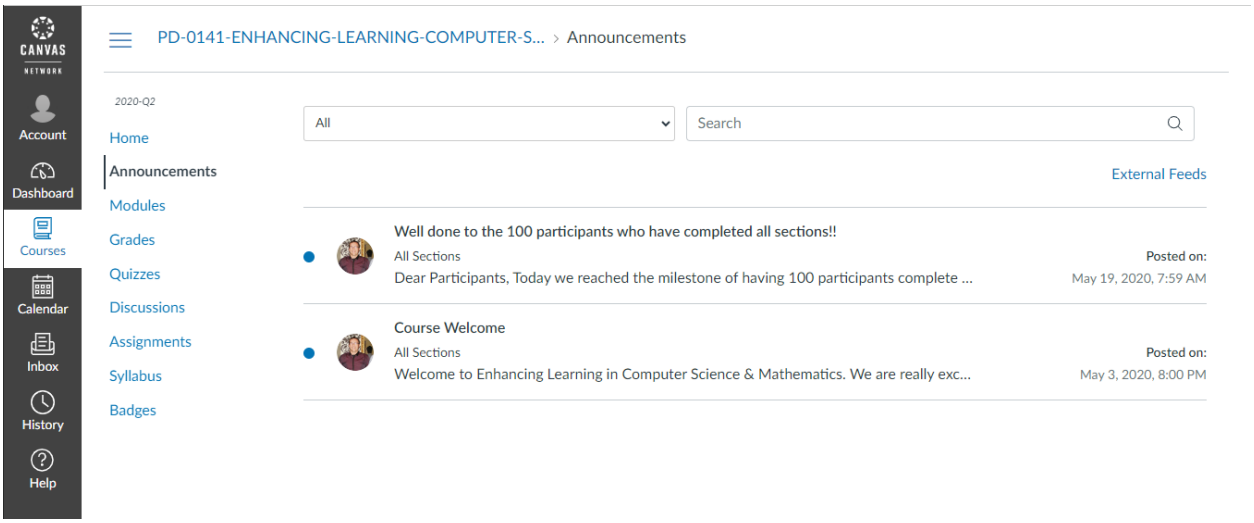
Meet the Instructors

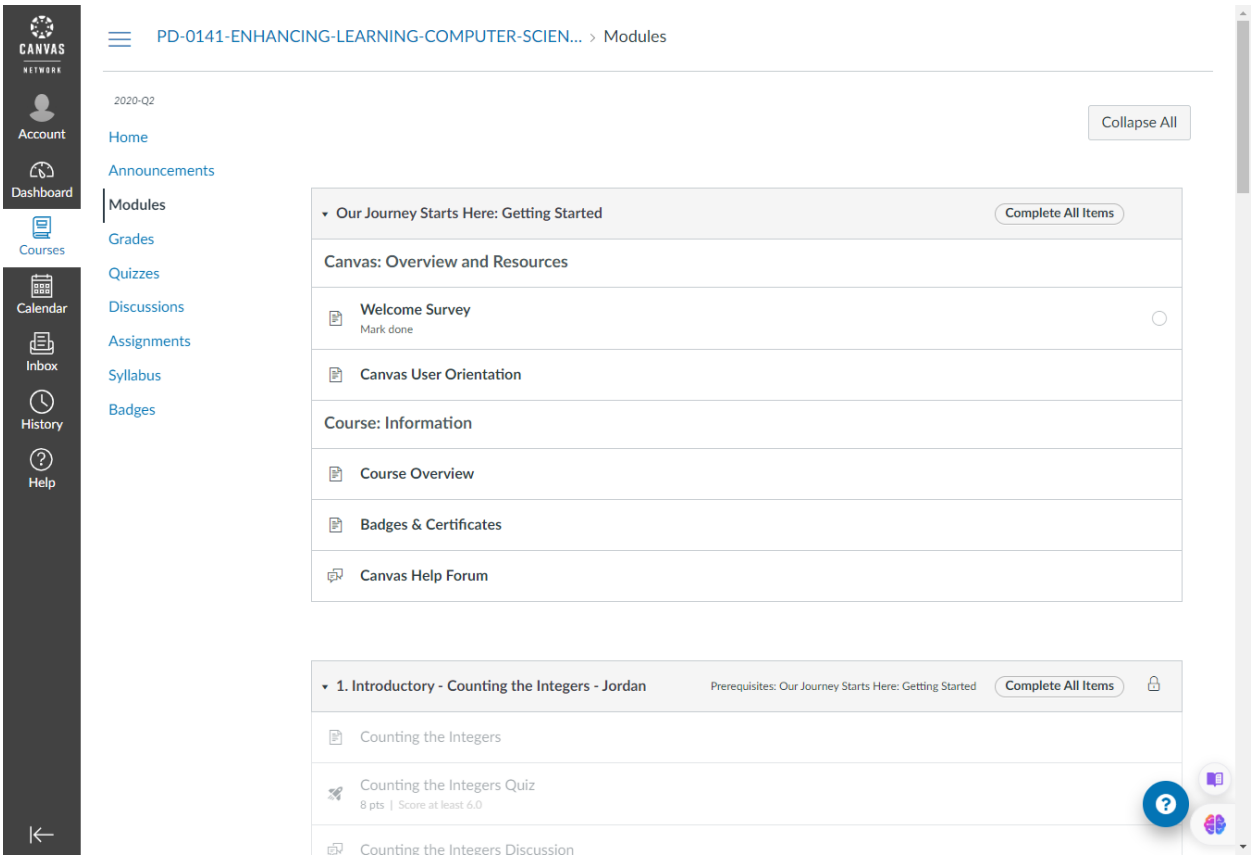
Click on each of the images below to get to know your instructors.

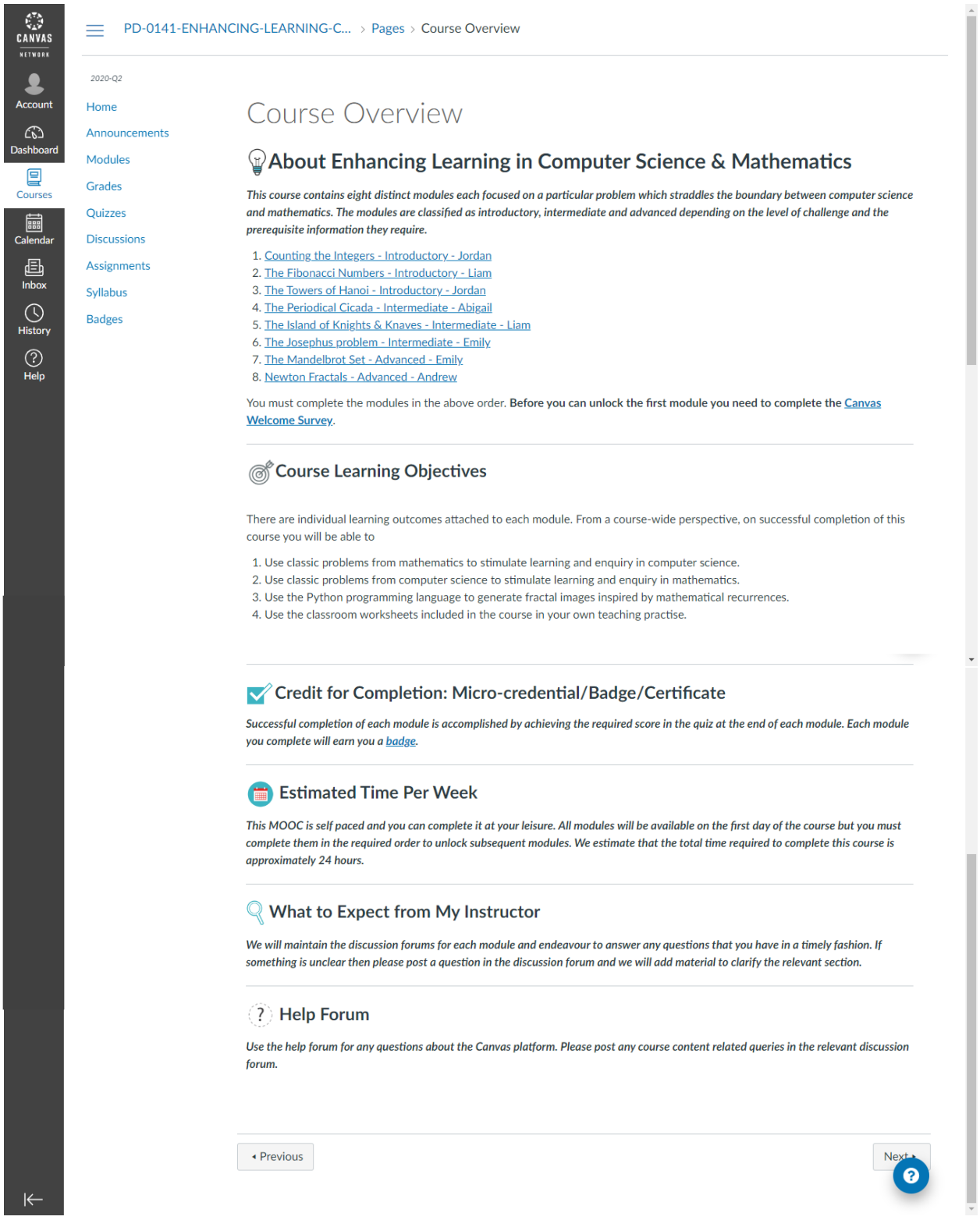
Dr. Liam Naughton | Ms. Emily Rodden | Mr. Jordan Brennan

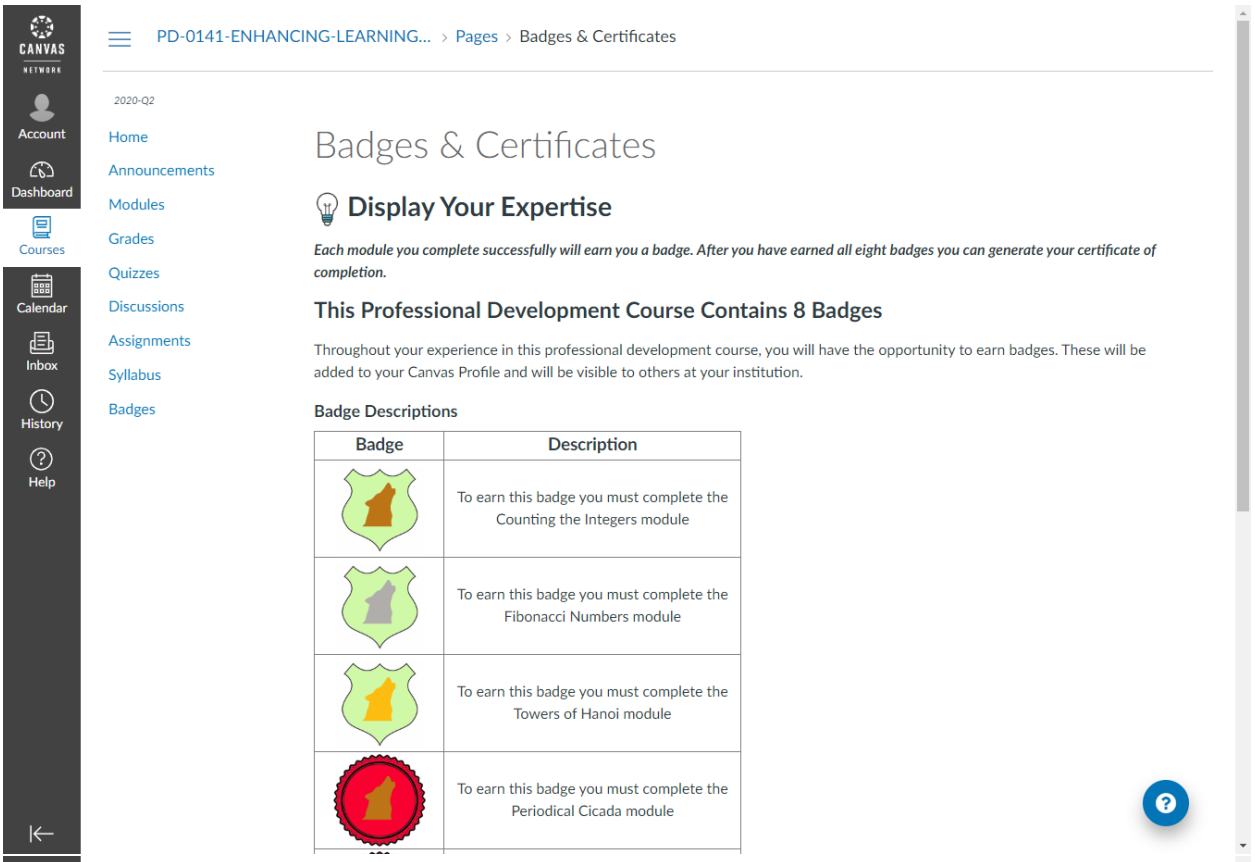


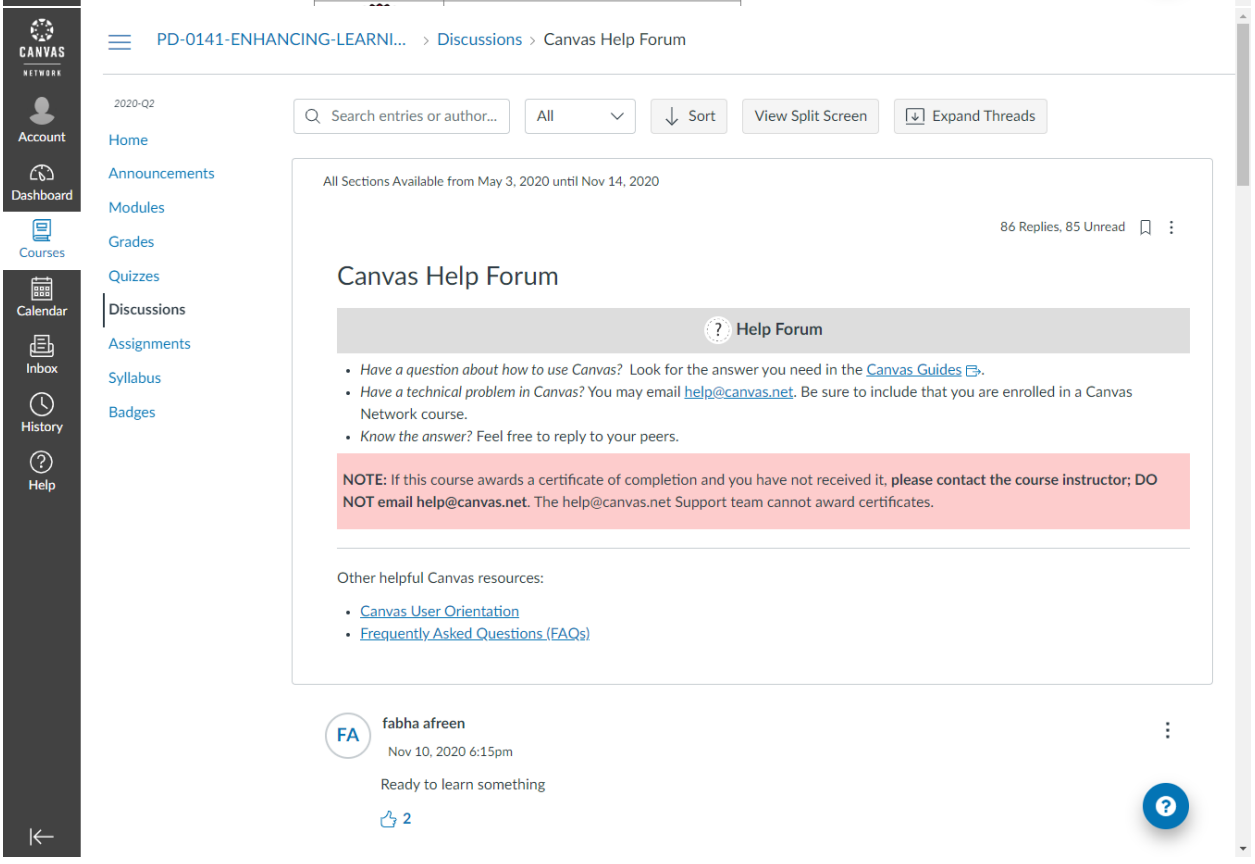


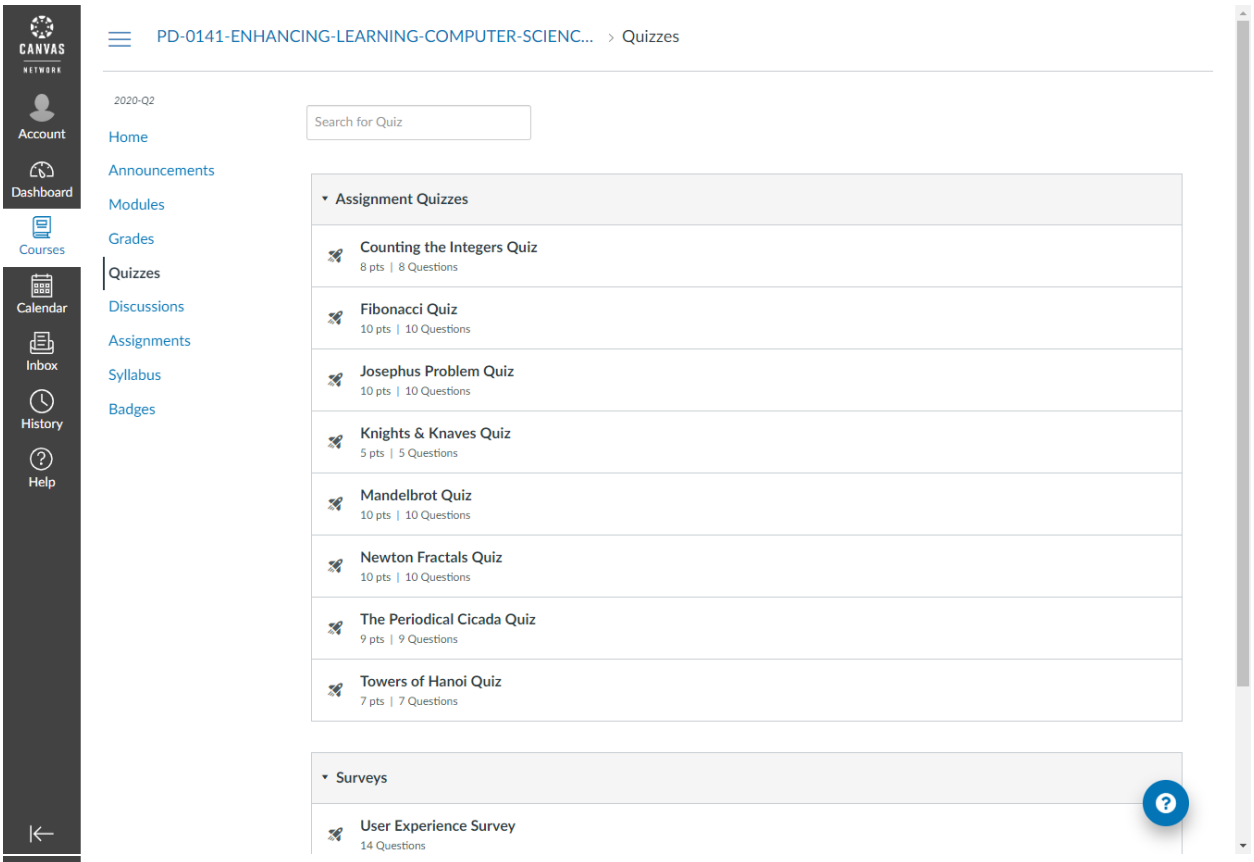

CANVAS NETWORK
Account
Dashboard
Courses
Calendar
Inbox
History
Help
PD-0141-ENHANCING-LEARNING-COMPUTER-S... › Announcements
2020-Q2
Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges
All
Search
External Feeds
Well done to the 100 participants who have completed all sections!!
All Sections
Dear Participants, Today we reached the milestone of having 100 participants complete ...
Posted on:
May 19, 2020, 7:59 AM
Course Welcome
All Sections
Welcome to Enhancing Learning in Computer Science & Mathematics. We are really exc...
Posted on:
May 3, 2020, 8:00 PM

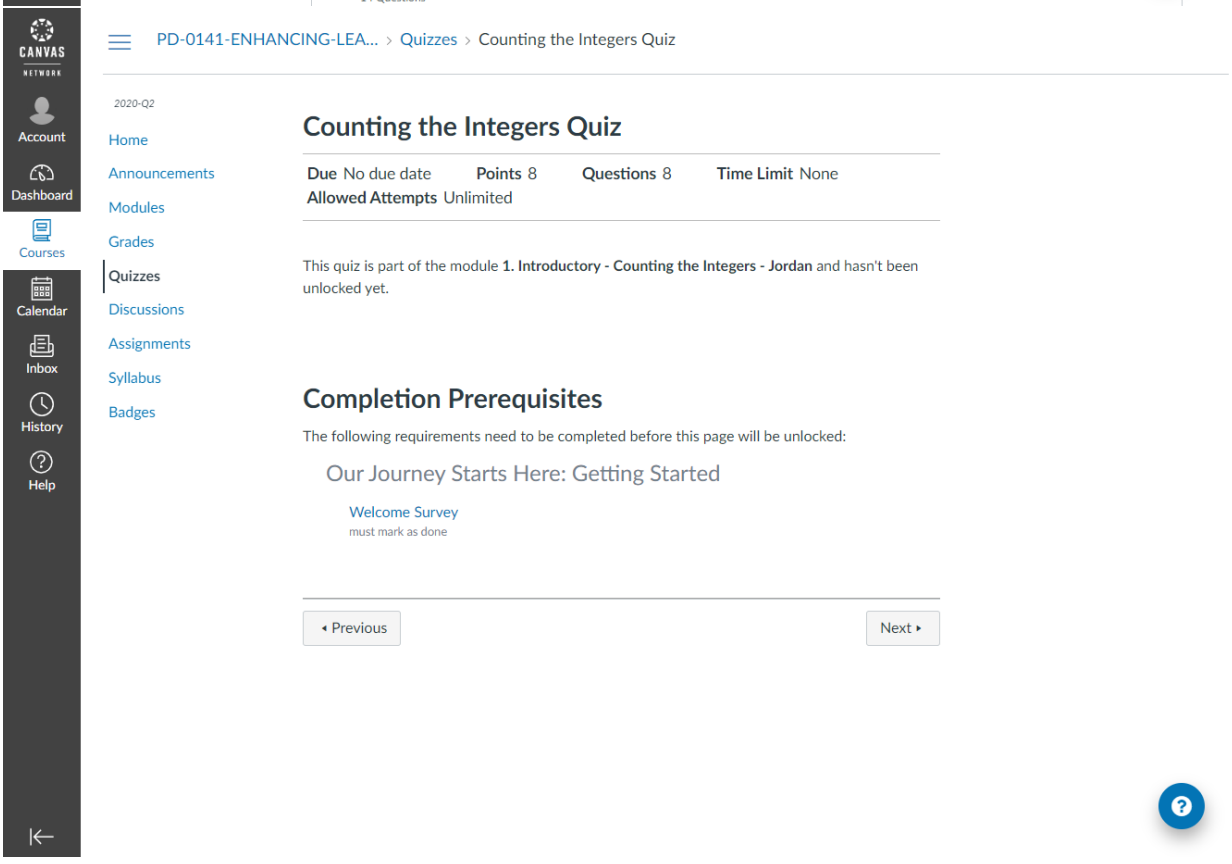

CANVAS NETWORK
Account
Dashboard
Courses
Calendar
Inbox
History
Help
PD-0141-ENHANCING-LEARNING-COMPUTER-SCIEN... › Modules
2020-Q2
Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges
Collapse All
Our Journey Starts Here: Getting Started
Complete All Items
Canvas: Overview and Resources
Welcome Survey
Mark done
Canvas User Orientation
Course: Information
Course Overview
Badges & Certificates
Canvas Help Forum
1. Introductory - Counting the Integers - Jordan
Prerequisites: Our Journey Starts Here: Getting Started
Complete All Items
Counting the Integers
Counting the Integers Quiz
8 pts | Score at least 6.0
Counting the Integers Discussion

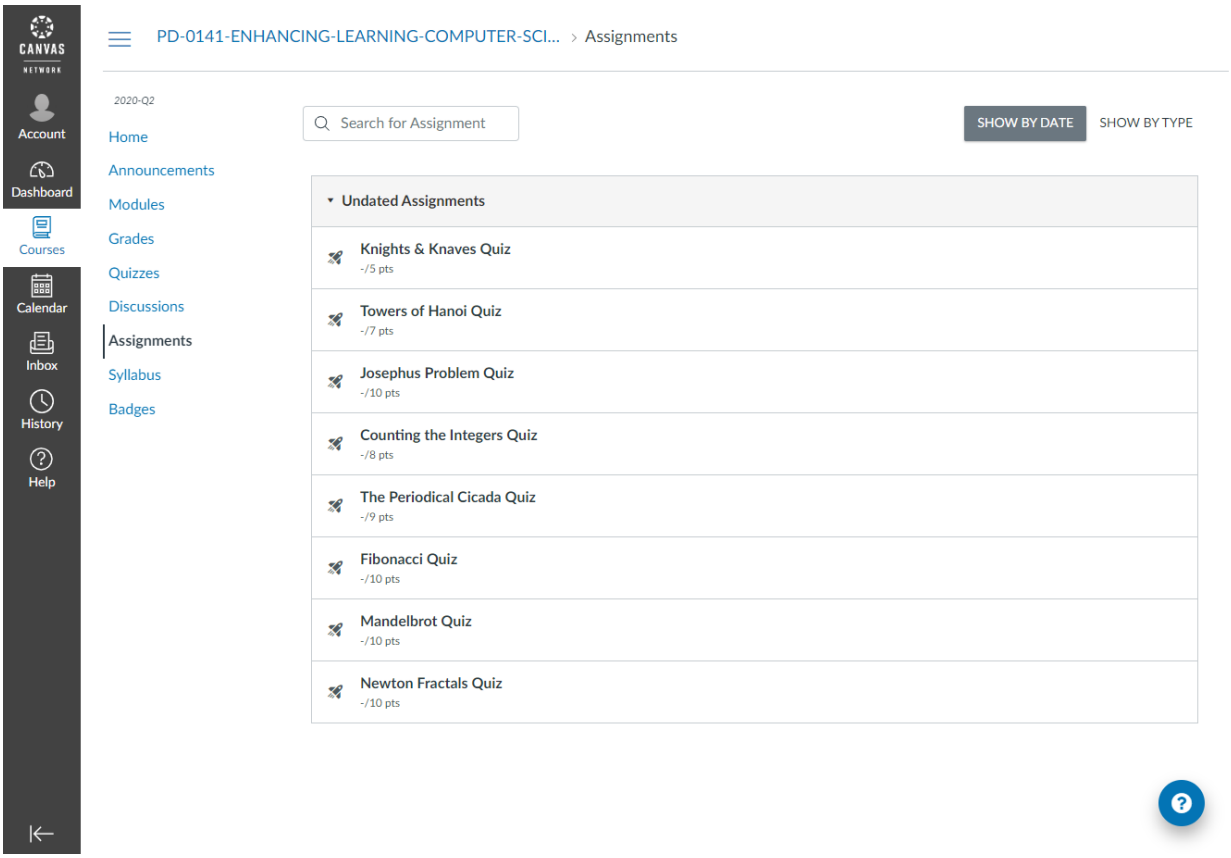

CANVAS NETWORK
Account
Dashboard
Courses
Calendar
Inbox
History
Help
PD-0141-ENHANCING-LEARNING-C... › Pages › Course Overview
2020-Q2
Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges
Course Overview
About Enhancing Learning in Computer Science & Mathematics
This course contains eight distinct modules each focused on a particular problem which straddles the boundary between computer science and mathematics. The modules are classified as introductory, intermediate and advanced depending on the level of challenge and the prerequisite information they require.
1. Counting the Integers - Introductory - Jordan
2. The Fibonacci Numbers - Introductory - Liam
3. The Towers of Hanoi - Introductory - Jordan
4. The Periodical Cicada - Intermediate - Abigail
5. The Island of Knights & Knaves - Intermediate - Liam
6. The Josephus problem - Intermediate - Emily
7. The Mandelbrot Set - Advanced - Emily
8. Newton Fractals - Advanced - Andrew
You must complete the modules in the above order. Before you can unlock the first module you need to complete the Canvas Welcome Survey.
Course Learning Objectives
There are individual learning outcomes attached to each module. From a course-wide perspective, on successful completion of this course you will be able to
1. Use classic problems from mathematics to stimulate learning and enquiry in computer science.
2. Use classic problems from computer science to stimulate learning and enquiry in mathematics.
3. Use the Python programming language to generate fractal images inspired by mathematical recurrences.
4. Use the classroom worksheets included in the course in your own teaching practise.
Credit for Completion: Micro-credential/Badge/Certificate
Successful completion of each module is accomplished by achieving the required score in the quiz at the end of each module. Each module you complete will earn you a badge.
Estimated Time Per Week
This MOOC is self paced and you can complete it at your leisure. All modules will be available on the first day of the course but you must complete them in the required order to unlock subsequent modules. We estimate that the total time required to complete this course is approximately 24 hours.
What to Expect from My Instructor
We will maintain the discussion forums for each module and endeavour to answer any questions that you have in a timely fashion. If something is unclear then please post a question in the discussion forum and we will add material to clarify the relevant section.
Help Forum
Use the help forum for any questions about the Canvas platform. Please post any course content related queries in the relevant discussion forum.
Previous
Next

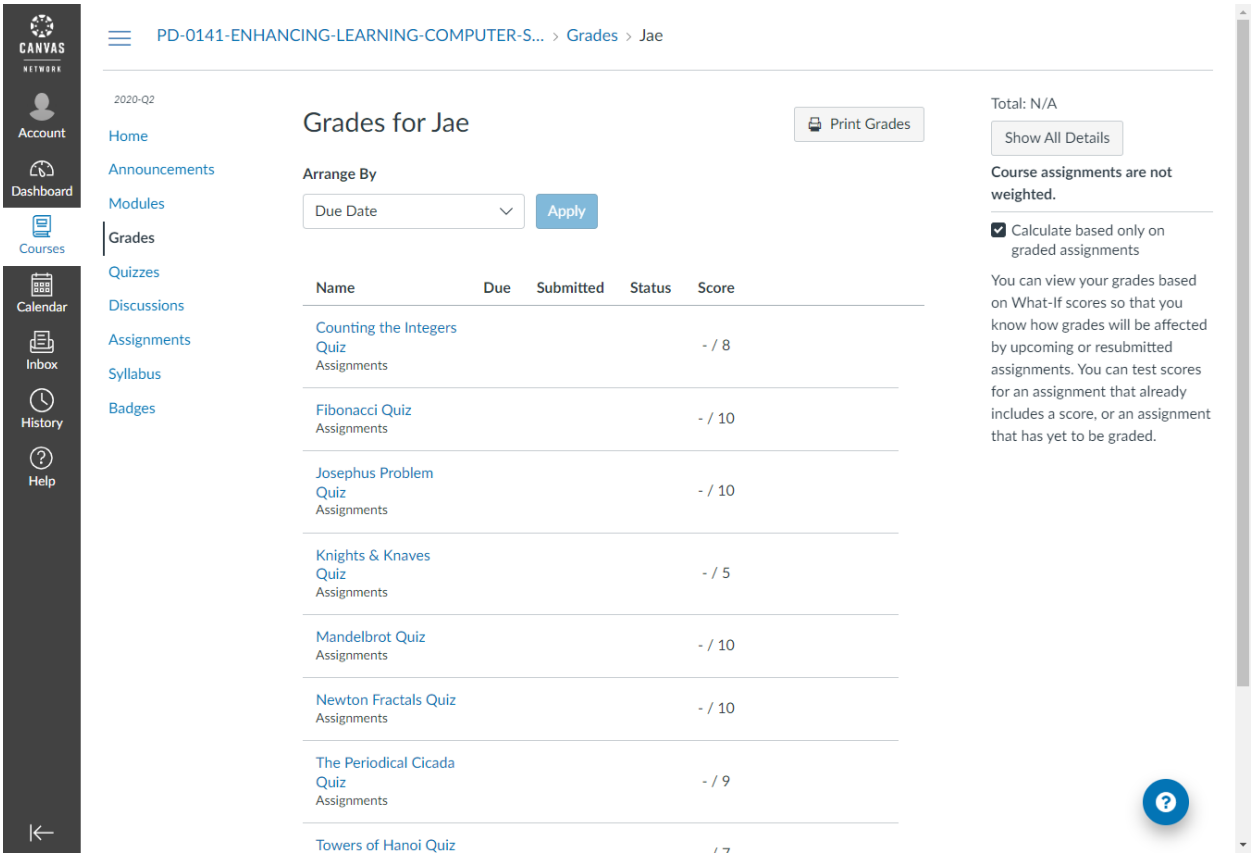

CANVAS NETWORK
Account
Dashboard
Courses
Calendar
Inbox
History
Help
PD-0141-ENHANCING-LEARNING... › Pages › Badges & Certificates
2020-Q2
Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges
Badges & Certificates
Display Your Expertise
Each module you complete successfully will earn you a badge. After you have earned all eight badges you can generate your certificate of completion.
This Professional Development Course Contains 8 Badges
Throughout your experience in this professional development course, you will have the opportunity to earn badges. These will be added to your Canvas Profile and will be visible to others at your institution.
Badge Descriptions
Badge
Description
To earn this badge you must complete the Counting the Integers module
To earn this badge you must complete the Fibonacci Numbers module
To earn this badge you must complete the Towers of Hanoi module
To earn this badge you must complete the Periodical Cicada module


CANVAS NETWORK
Account
Dashboard
Courses
Calendar
Inbox
History
Help
PD-0141-ENHANCING-LEARNI... › Discussions › Canvas Help Forum
2020-Q2
Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges
Search entries or author...
All
Sort
View Split Screen
Expand Threads
All Sections Available from May 3, 2020 until Nov 14, 2020
86 Replies, 85 Unread
Canvas Help Forum
Help Forum
Have a question about how to use Canvas? Look for the answer you need in the Canvas Guides.
Have a technical problem in Canvas? You may email help@canvas.net. Be sure to include that you are enrolled in a Canvas Network course.
Know the answer? Feel free to reply to your peers.
NOTE: If this course awards a certificate of completion and you have not received it, please contact the course instructor; DO NOT email help@canvas.net. The help@canvas.net Support team cannot award certificates.
Other helpful Canvas resources:
Canvas User Orientation
Frequently Asked Questions (FAQs)
FA
fabha afreen
Nov 10, 2020 6:15pm
Ready to learn something
2


CANVAS NETWORK
Account
Dashboard
Courses
Calendar
Inbox
History
Help
PD-0141-ENHANCING-LEARNING-COMPUTER-SCIENC... › Quizzes
2020-Q2
Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges
Search for Quiz
Assignment Quizzes
Counting the Integers Quiz
8 pts | 8 Questions
Fibonacci Quiz
10 pts | 10 Questions
Josephus Problem Quiz
10 pts | 10 Questions
Knights & Knaves Quiz
5 pts | 5 Questions
Mandelbrot Quiz
10 pts | 10 Questions
Newton Fractals Quiz
10 pts | 10 Questions
The Periodical Cicada Quiz
9 pts | 9 Questions
Towers of Hanoi Quiz
7 pts | 7 Questions
Surveys
User Experience Survey
14 Questions

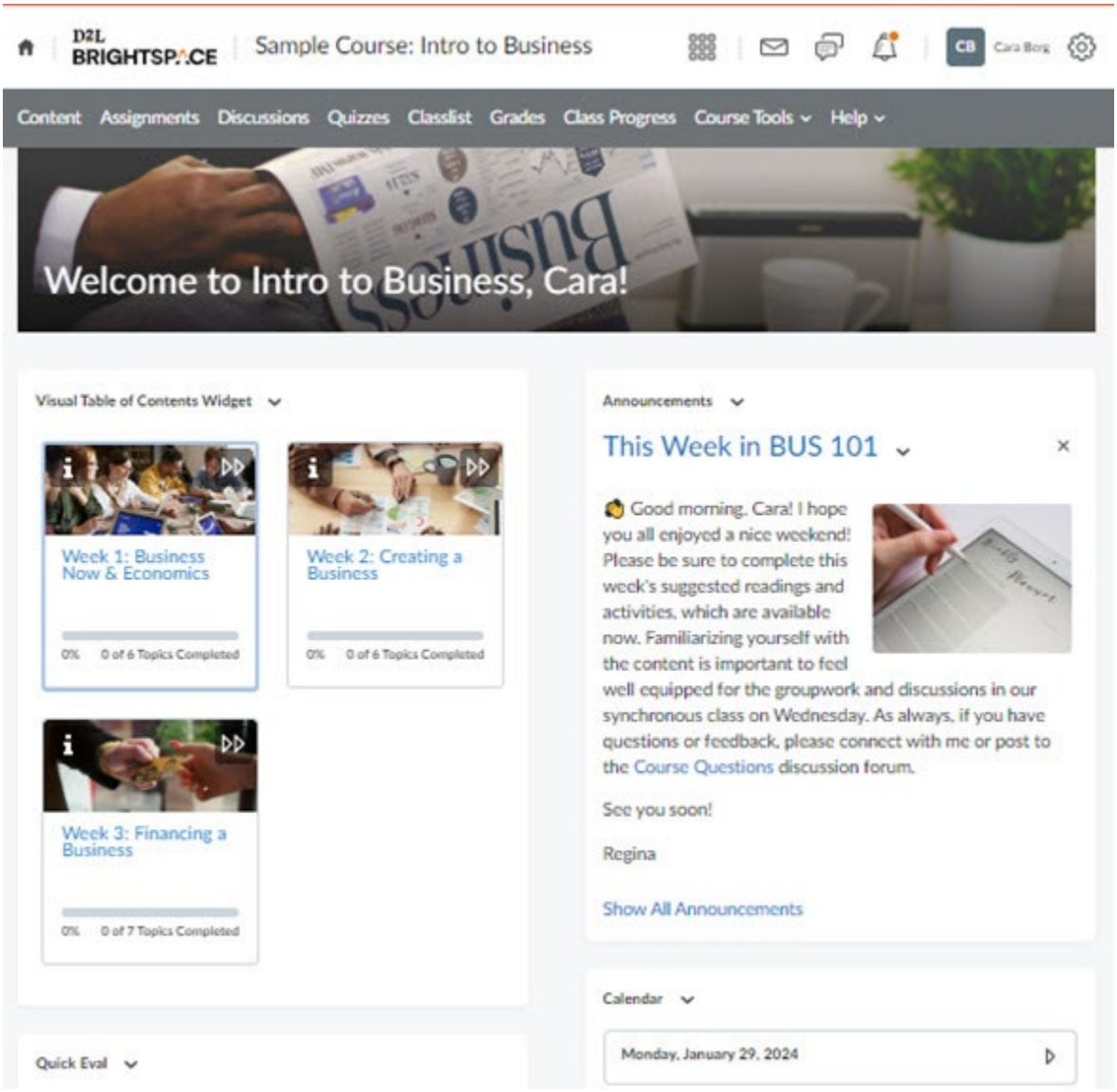

CANVAS NETWORK
Account
Dashboard
Courses
Calendar
Inbox
History
Help
PD-0141-ENHANCING-LEA... › Quizzes › Counting the Integers Quiz
2020-Q2
Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges
Counting the Integers Quiz
Due No due date Points 8 Questions 8 Time Limit None
Allowed Attempts Unlimited
This quiz is part of the module 1. Introductory - Counting the Integers - Jordan and hasn't been unlocked yet.
Completion Prerequisites
The following requirements need to be completed before this page will be unlocked:
Our Journey Starts Here: Getting Started
Welcome Survey
must mark as done
Previous
Next

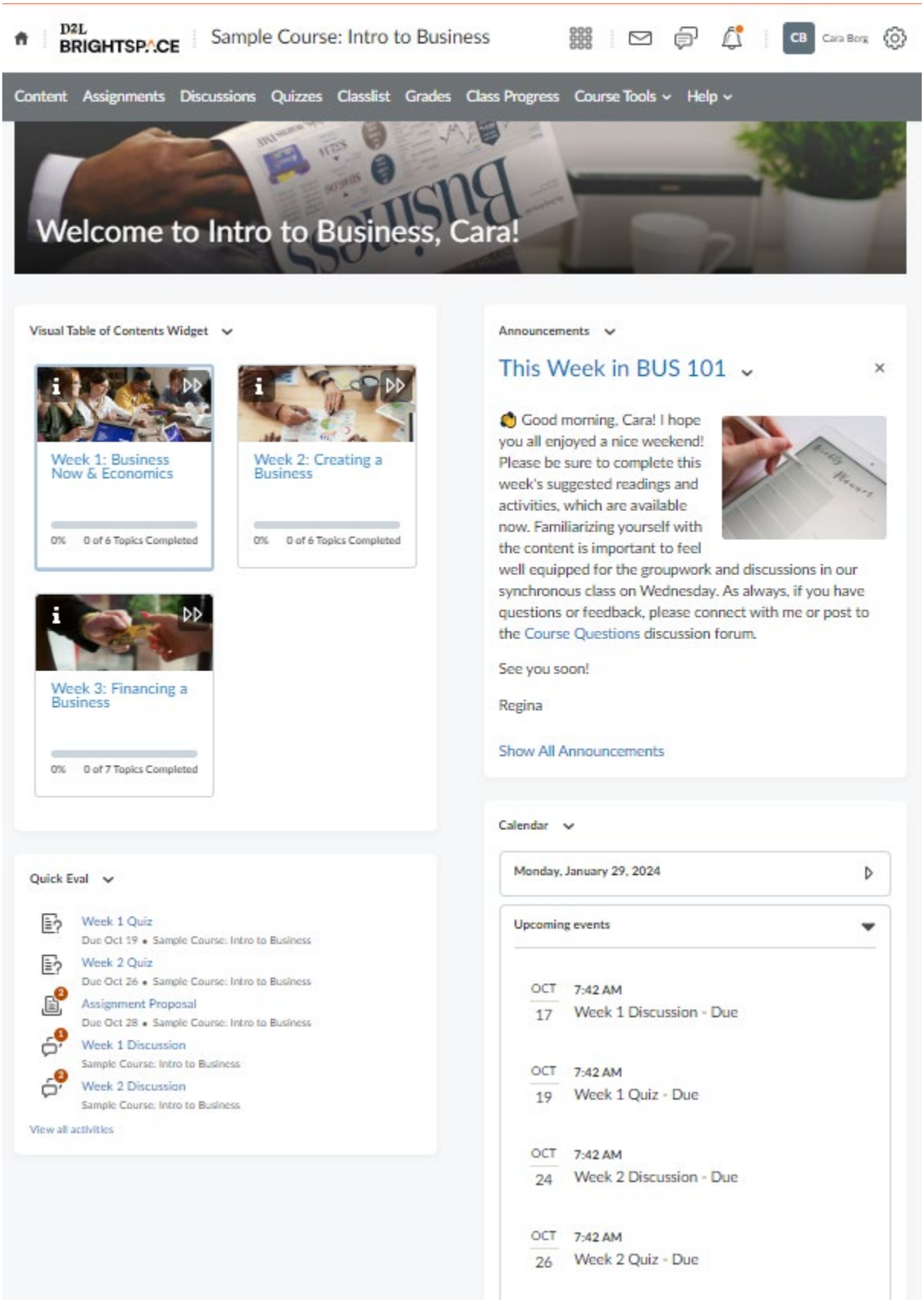

CANVAS NETWORK
Account
Dashboard
Courses
Calendar
Inbox
History
Help
PD-0141-ENHANCING-LEARNING-COMPUTER-SCI... › Assignments
2020-Q2
Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges
Search for Assignment
SHOW BY DATE
SHOW BY TYPE
Undated Assignments
Knights & Knaves Quiz -/5 pts
Towers of Hanoi Quiz -/7 pts
Josephus Problem Quiz -/10 pts
Counting the Integers Quiz -/8 pts
The Periodical Cicada Quiz -/9 pts
Fibonacci Quiz -/10 pts
Mandelbrot Quiz -/10 pts
Newton Fractals Quiz -/10 pts


CANVAS NETWORK
Account
Dashboard
Courses
Calendar
Inbox
History
Help
PD-0141-ENHANCING-LEARNING-COMPUTER-S... › Grades › Jae
2020-Q2
Home
Announcements
Modules
Grades
Quizzes
Discussions
Assignments
Syllabus
Badges
Grades for Jae
Print Grades
Arrange By
Due Date
Apply
Name Due Submitted Status Score
Counting the Integers Quiz Assignments - / 8
Fibonacci Quiz Assignments - / 10
Josephus Problem Quiz Assignments - / 10
Knights & Knaves Quiz Assignments - / 5
Mandelbrot Quiz Assignments - / 10
Newton Fractals Quiz Assignments - / 10
The Periodical Cicada Quiz Assignments - / 9
Towers of Hanoi Quiz
Total: N/A
Show All Details
Course assignments are not weighted.
Calculate based only on graded assignments
You can view your grades based on What-If scores so that you know how grades will be affected by upcoming or resubmitted assignments. You can test scores for an assignment that already includes a score, or an assignment that has yet to be graded.

D2L

D2L, known for its focus on adaptive learning and analytics-driven insights, places a strong emphasis on user experience and interface design to facilitate personalized learning experiences. The platform's interface is characterized by a clean, modern design that prioritizes clarity and simplicity. D2L's intuitive navigation system, featuring collapsible menus and contextual tooltips, empowers users to explore the platform's rich feature set with ease. Accessibility is also a key consideration, with D2L incorporating features such as keyboard shortcuts, high-contrast themes, and screen reader compatibility to ensure an inclusive learning environment. D2L's interface is highly customizable, allowing educators to tailor the layout and appearance of their courses to align with their instructional objectives and branding guidelines. Additionally, D2L's integrated learning analytics dashboard provides educators with valuable insights into student engagement and performance, enabling data-driven decision-making to enhance teaching and learning outcomes.




D2L BRIGHTSPACE
Sample Course: Intro to Business
CB
Cara Borg
Content
Assignments
Discussions
Quizzes
Classlist
Grades
Class Progress
Course Tools
Help
Welcome to Intro to Business, Cara!
Visual Table of Contents Widget
Week 1: Business Now & Economics
0% 0 of 6 Topics Completed
Week 2: Creating a Business
0% 0 of 6 Topics Completed
Week 3: Financing a Business
0% 0 of 7 Topics Completed
Announcements
This Week in BUS 101
Good morning, Cara! I hope you all enjoyed a nice weekend! Please be sure to complete this week's suggested readings and activities, which are available now. Familiarizing yourself with the content is important to feel well equipped for the groupwork and discussions in our synchronous class on Wednesday. As always, if you have questions or feedback, please connect with me or post to the Course Questions discussion forum.
See you soon!
Regina
Show All Announcements
Quick Eval
Week 1 Quiz
Due Oct 19 • Sample Course: Intro to Business
Week 2 Quiz
Due Oct 26 • Sample Course: Intro to Business
Assignment Proposal
Due Oct 28 • Sample Course: Intro to Business
Week 1 Discussion
Sample Course: Intro to Business
Week 2 Discussion
Sample Course: Intro to Business
View all activities
Calendar
Monday, January 29, 2024
Upcoming events
OCT 17 7:42 AM Week 1 Discussion - Due
OCT 19 7:42 AM Week 1 Quiz - Due
OCT 24 7:42 AM Week 2 Discussion - Due
OCT 26 7:42 AM Week 2 Quiz - Due

OCT 28 7:42 AM
Assignment Proposal - Due

OCT 31 7:42 AM
Week 3 Discussion - Due

NOV 2 7:42 AM
Week 3 Quiz - Due

DEC 5 7:42 AM
Oral Presentation - Due

DEC 5 7:42 AM
Formal Report - Due

Single Profile Widget

YOUR INSTRUCTOR

Regina Miller



About Me

Welcome! I have been an educator at this fine institution for over 13 years now and the greatest joy of my career is watching my BUS 101 students go on to accomplish BIG THINGS!
I am looking forward to getting to know you all this term

D2L BRIGHTSPACE | Sample Course: Intro to Business

CB Cara Berg

Content | Assignments | Discussions | Quizzes | Classlist | Grades | Class Progress | Course Tools | Help

Search Topics

Overview

Bookmarks

Course Schedule

Table of Contents 19

Week 1: Business Now & Economics 6

Our Course Community 2

Week 2: Creating a Business 6

Week 3: Financing a Business 7

Add a module...

Week 1: Business Now & Economics

Print | Settings

Add dates and restrictions...



Welcome to BUS 101: Introduction to Business! This course offers you the opportunity to explore various aspects of business, including economics, international business, ethics and social responsibility, communication, entrepreneurship, and marketing.

Upload / Create | Existing Activities | Bulk Edit | Expand All | Collapse All

Course Learning Outcomes

Web Page

Please review the expected learning outcomes for this course as you get started.

Economics: The Framework for Business

PowerPoint Presentation

These slides were shared in class this week. Please connect if you have any questions about the content. Also refer to chapter 2 in our course resource.

Week 1 Discussion

Discussion Topic

Due October 17 at 7:42 AM

Option One: Would you be surprised to learn that the United States is among only three countries that have not converted to the metric system? Consider how odd this situation is on the world stage and address the following:

- Which other countries have not converted to the metric system?
- Why hasn't the United States converted to the metric system?
- What are the implications for global business, both imports and exports?

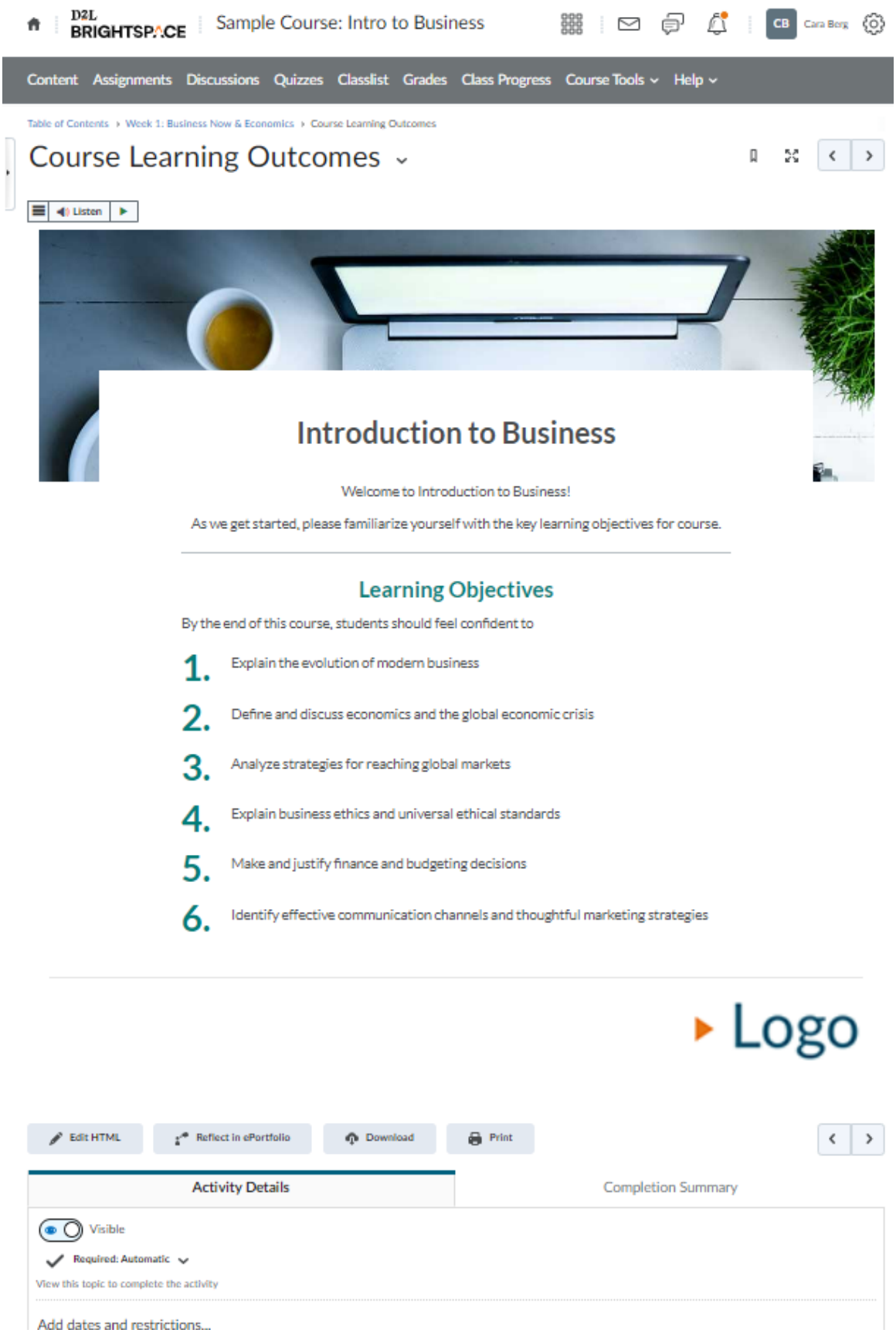
Option Two: Think about what relationship the economy has with our institution and jot down a few ideas or discuss among peers. Then, consider how increases in unemployment might affect, if at all, enrollment and various departments our institution.

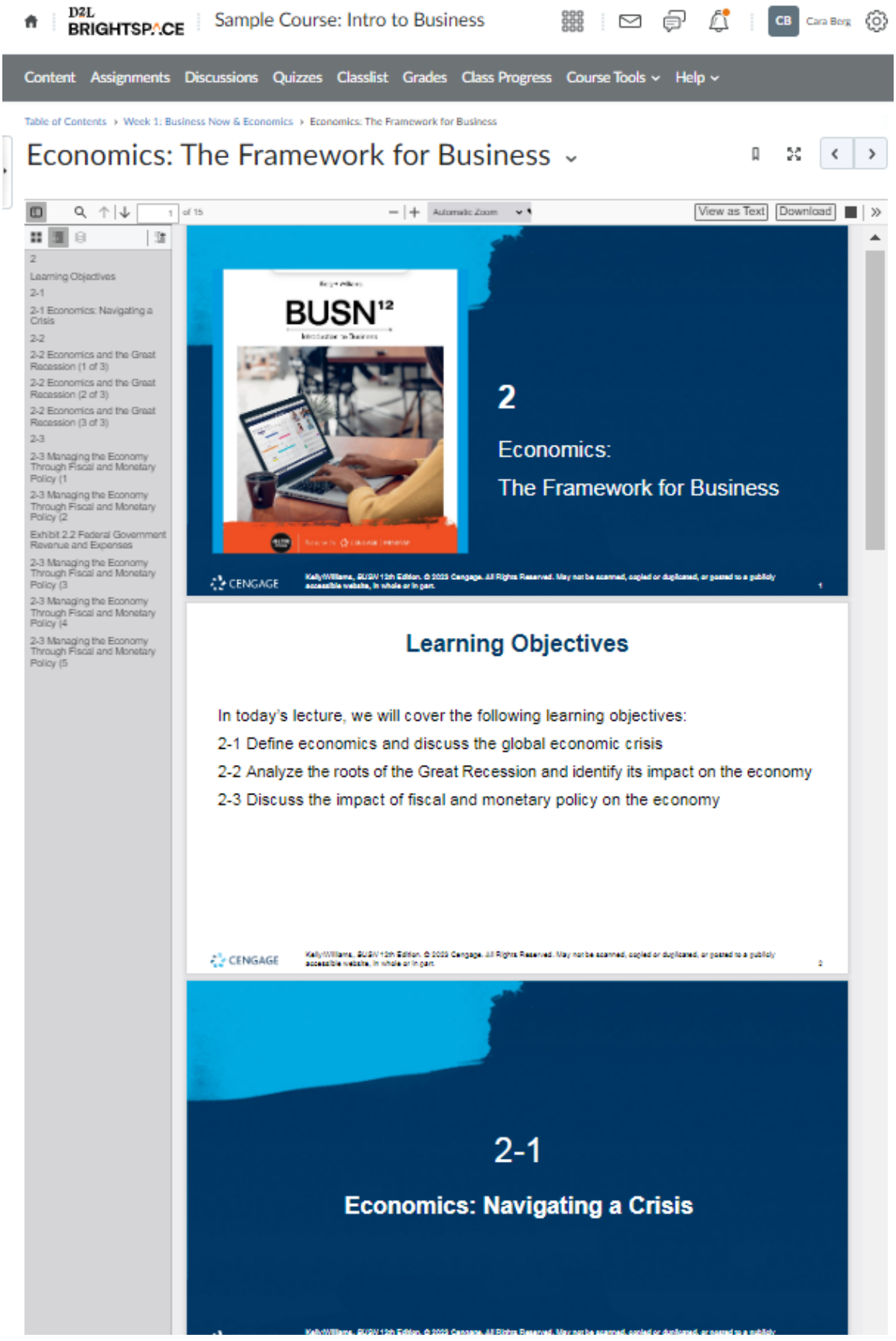
Week 1 Quiz

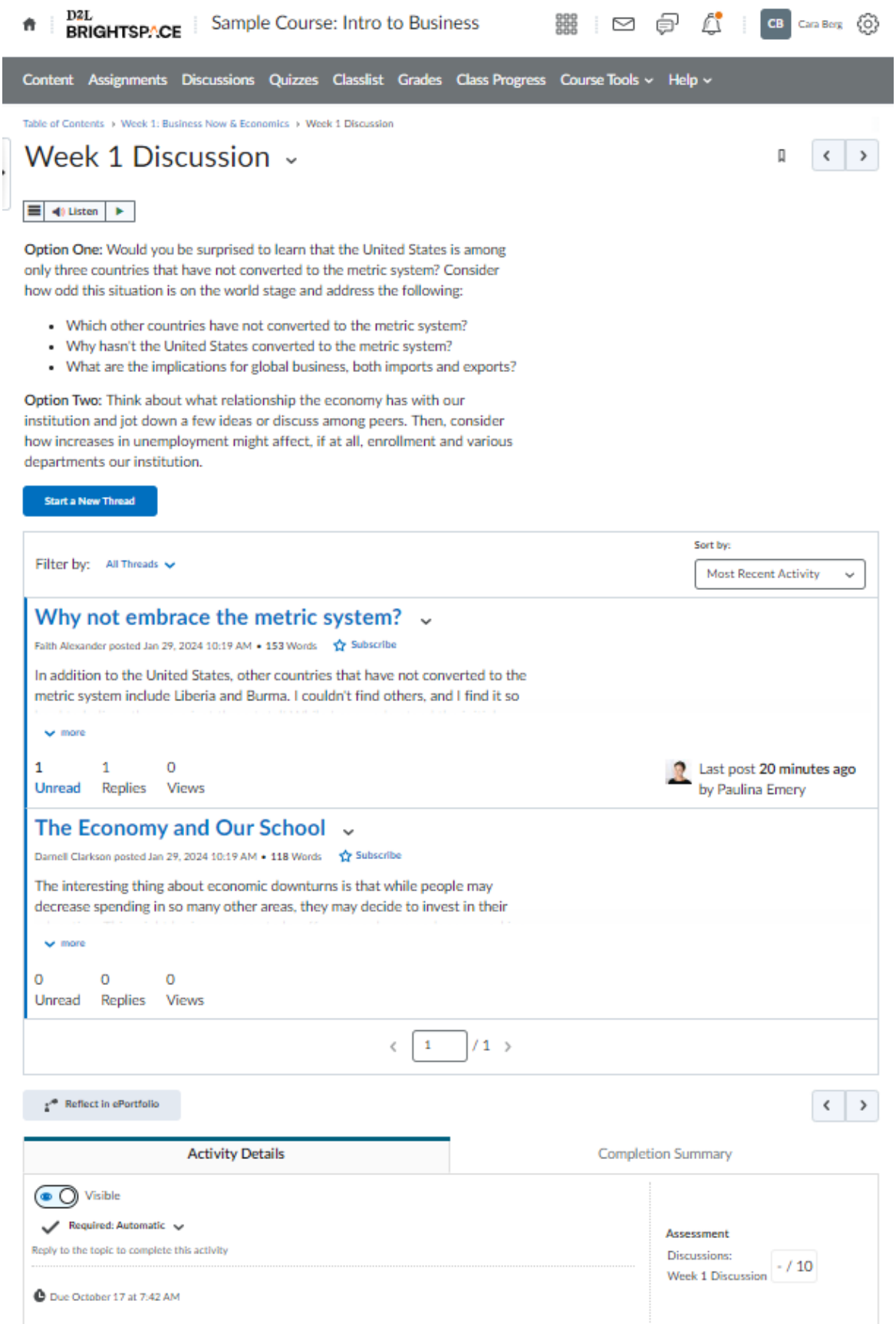
Quiz

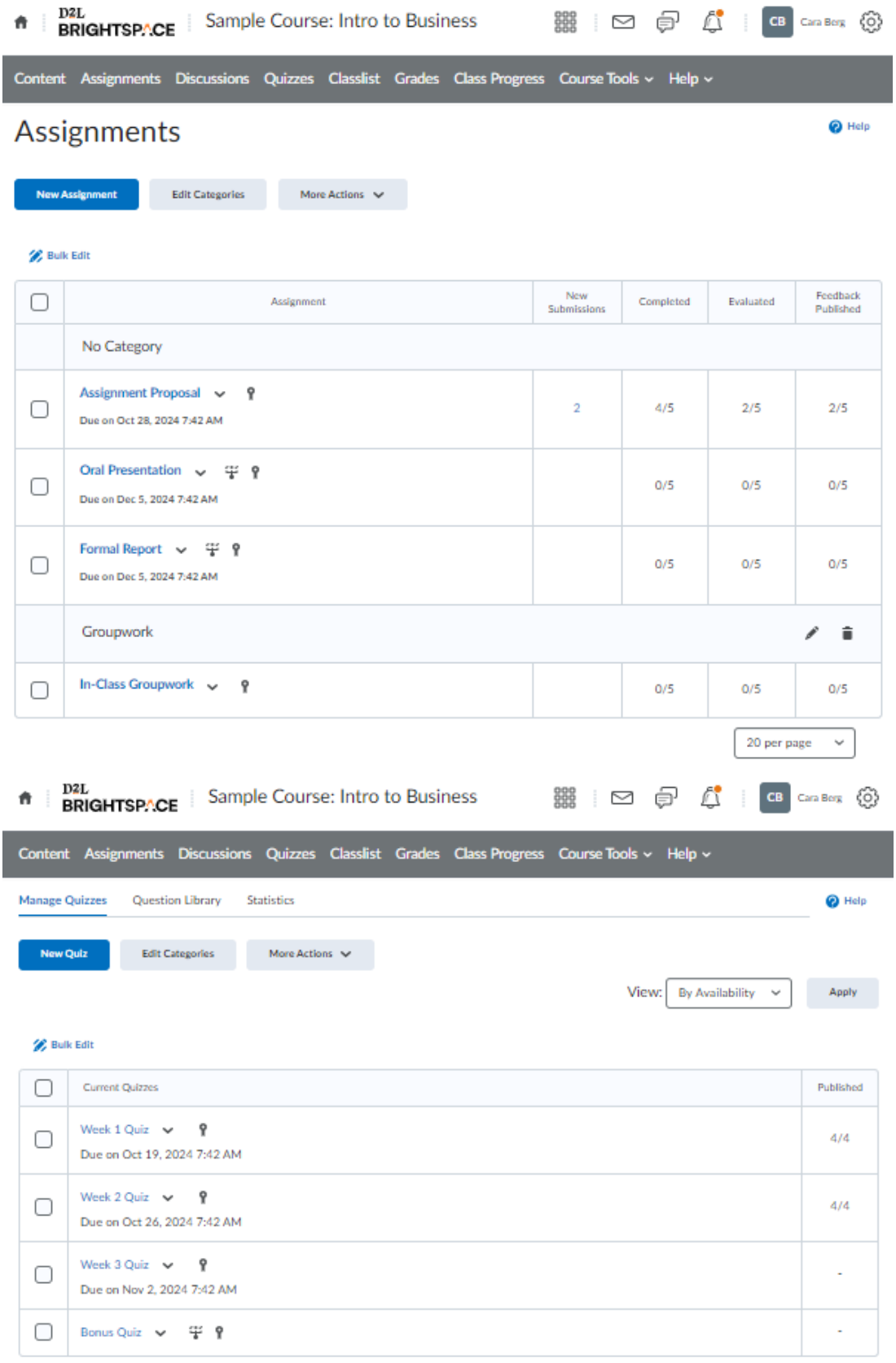
Due October 19 at 7:42 AM

Be sure to carefully review the content in The Business Environment along with your lecture notes before starting the quiz.


D2L BRIGHTSPACE
Sample Course: Intro to Business
CB
Cara Berg
Content
Assignments
Discussions
Quizzes
Classlist
Grades
Class Progress
Course Tools
Help
Table of Contents › Week 1: Business Now & Economics › Course Learning Outcomes
Course Learning Outcomes
Listen
Introduction to Business
Welcome to Introduction to Business!
As we get started, please familiarize yourself with the key learning objectives for course.
Learning Objectives
By the end of this course, students should feel confident to
1. Explain the evolution of modern business
2. Define and discuss economics and the global economic crisis
3. Analyze strategies for reaching global markets
4. Explain business ethics and universal ethical standards
5. Make and justify finance and budgeting decisions
6. Identify effective communication channels and thoughtful marketing strategies
Logo
Edit HTML
Reflect in ePortfolio
Download
Print
Activity Details
Completion Summary
Visible
Required: Automatic
View this topic to complete the activity
Add dates and restrictions...


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Sample Course: Intro to Business
Cara Berg
Content
Assignments
Discussions
Quizzes
Classlist
Grades
Class Progress
Course Tools
Help
Table of Contents › Week 1: Business Now & Economics › Economics: The Framework for Business
Economics: The Framework for Business
View as Text
Download
2
Learning Objectives
2-1
2-1 Economics: Navigating a Crisis
2-2
2-2 Economics and the Great Recession (1 of 3)
2-2 Economics and the Great Recession (2 of 3)
2-2 Economics and the Great Recession (3 of 3)
2-3
2-3 Managing the Economy Through Fiscal and Monetary Policy (1
2-3 Managing the Economy Through Fiscal and Monetary Policy (2
Exhibit 2.2 Federal Government Revenue and Expenses
2-3 Managing the Economy Through Fiscal and Monetary Policy (3
2-3 Managing the Economy Through Fiscal and Monetary Policy (4
2-3 Managing the Economy Through Fiscal and Monetary Policy (5
BUSN12
2
Economics:
The Framework for Business
CENGAGE
Learning Objectives
In today's lecture, we will cover the following learning objectives:
2-1 Define economics and discuss the global economic crisis
2-2 Analyze the roots of the Great Recession and identify its impact on the economy
2-3 Discuss the impact of fiscal and monetary policy on the economy
CENGAGE
2-1
Economics: Navigating a Crisis


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Sample Course: Intro to Business
CB
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Content
Assignments
Discussions
Quizzes
Classlist
Grades
Class Progress
Course Tools
Help
Table of Contents › Week 1: Business Now & Economics › Week 1 Discussion
Week 1 Discussion
Listen
Option One: Would you be surprised to learn that the United States is among only three countries that have not converted to the metric system? Consider how odd this situation is on the world stage and address the following:
Which other countries have not converted to the metric system?
Why hasn't the United States converted to the metric system?
What are the implications for global business, both imports and exports?
Option Two: Think about what relationship the economy has with our institution and jot down a few ideas or discuss among peers. Then, consider how increases in unemployment might affect, if at all, enrollment and various departments our institution.
Start a New Thread
Filter by:
All Threads
Sort by:
Most Recent Activity
Why not embrace the metric system?
Faith Alexander posted Jan 29, 2024 10:19 AM • 153 Words
Subscribe
In addition to the United States, other countries that have not converted to the metric system include Liberia and Burma. I couldn't find others, and I find it so
more
1 Unread
1 Replies
0 Views
Last post 20 minutes ago by Paulina Emery
The Economy and Our School
Darnell Clarkson posted Jan 29, 2024 10:19 AM • 118 Words
Subscribe
The interesting thing about economic downturns is that while people may decrease spending in so many other areas, they may decide to invest in their
more
0 Unread
0 Replies
0 Views
1 / 1
Reflect in ePortfolio
Activity Details
Completion Summary
Visible
Required: Automatic
Reply to the topic to complete this activity
Due October 17 at 7:42 AM
Assessment
Discussions:
Week 1 Discussion
- / 10


D2L BRIGHTSPACE
Sample Course: Intro to Business
CB
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Content
Assignments
Discussions
Quizzes
Classlist
Grades
Class Progress
Course Tools
Help
Assignments
Help
New Assignment
Edit Categories
More Actions
Bulk Edit
Assignment
New Submissions
Completed
Evaluated
Feedback Published
No Category
Assignment Proposal
Due on Oct 28, 2024 7:42 AM
2
4/5
2/5
2/5
Oral Presentation
Due on Dec 5, 2024 7:42 AM
0/5
0/5
0/5
Formal Report
Due on Dec 5, 2024 7:42 AM
0/5
0/5
0/5
Groupwork
In-Class Groupwork
0/5
0/5
0/5
20 per page
D2L BRIGHTSPACE
Sample Course: Intro to Business
CB
Cara Berg
Content
Assignments
Discussions
Quizzes
Classlist
Grades
Class Progress
Course Tools
Help
Manage Quizzes
Question Library
Statistics
Help
New Quiz
Edit Categories
More Actions
View:
By Availability
Apply
Bulk Edit
Current Quizzes
Published
Week 1 Quiz
Due on Oct 19, 2024 7:42 AM
4/4
Week 2 Quiz
Due on Oct 26, 2024 7:42 AM
4/4
Week 3 Quiz
Due on Nov 2, 2024 7:42 AM
-
Bonus Quiz
-

D2L BRIGHTSPACE | Sample Course: Intro to Business

CB Cara Borg

Content | Assignments | Discussions | Quizzes | Classlist | Grades | Class Progress | Course Tools | Help

Discussions

Settings | Help

Discussions List | Subscriptions | Group and Section Restrictions | Statistics

New | More Actions

Filter by: Unread Unapproved

Collapse All Forums

Course Community

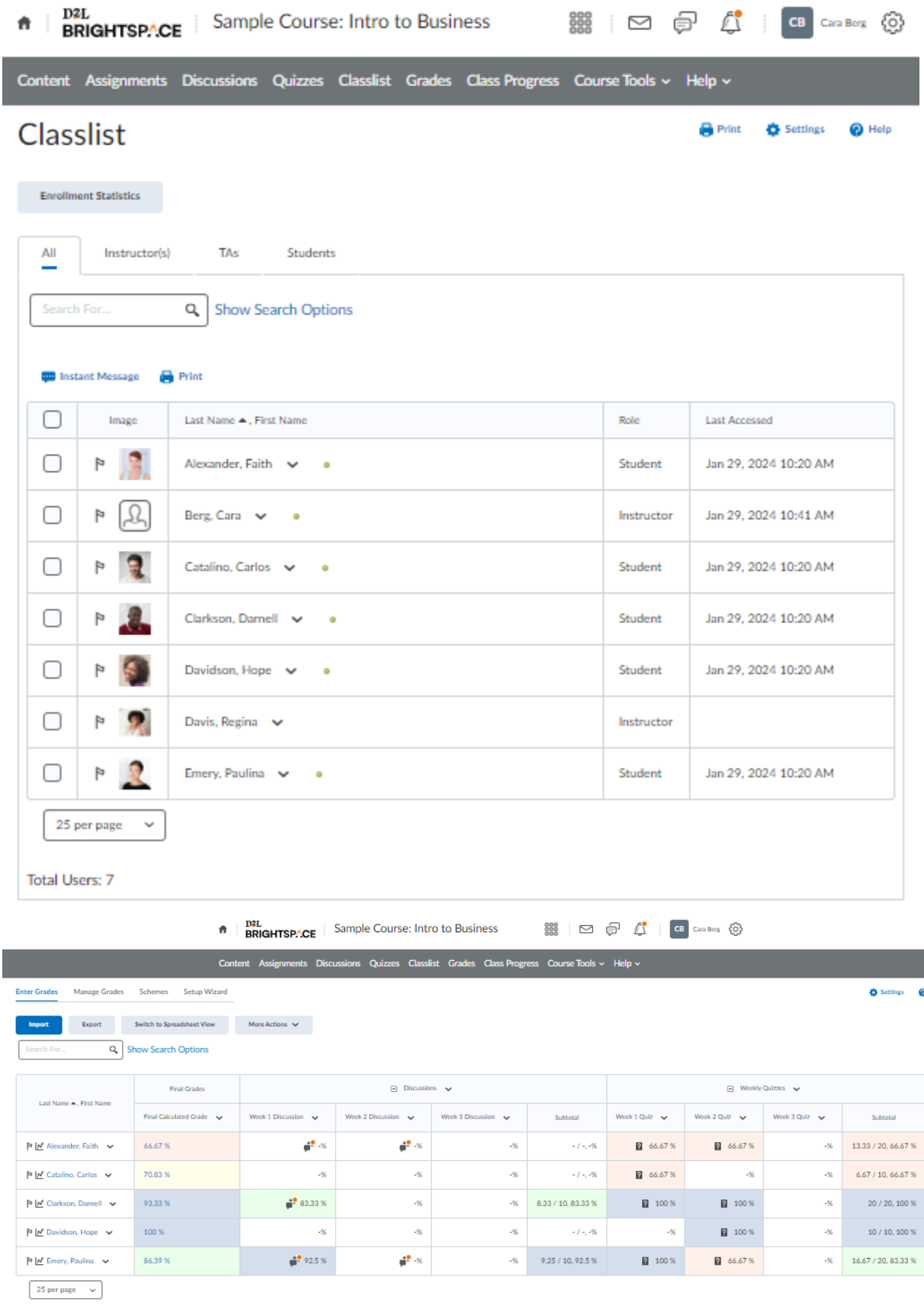
This space is reserved for opportunities to connect with one another. Start by introducing yourself in the Introductions discussion topic.

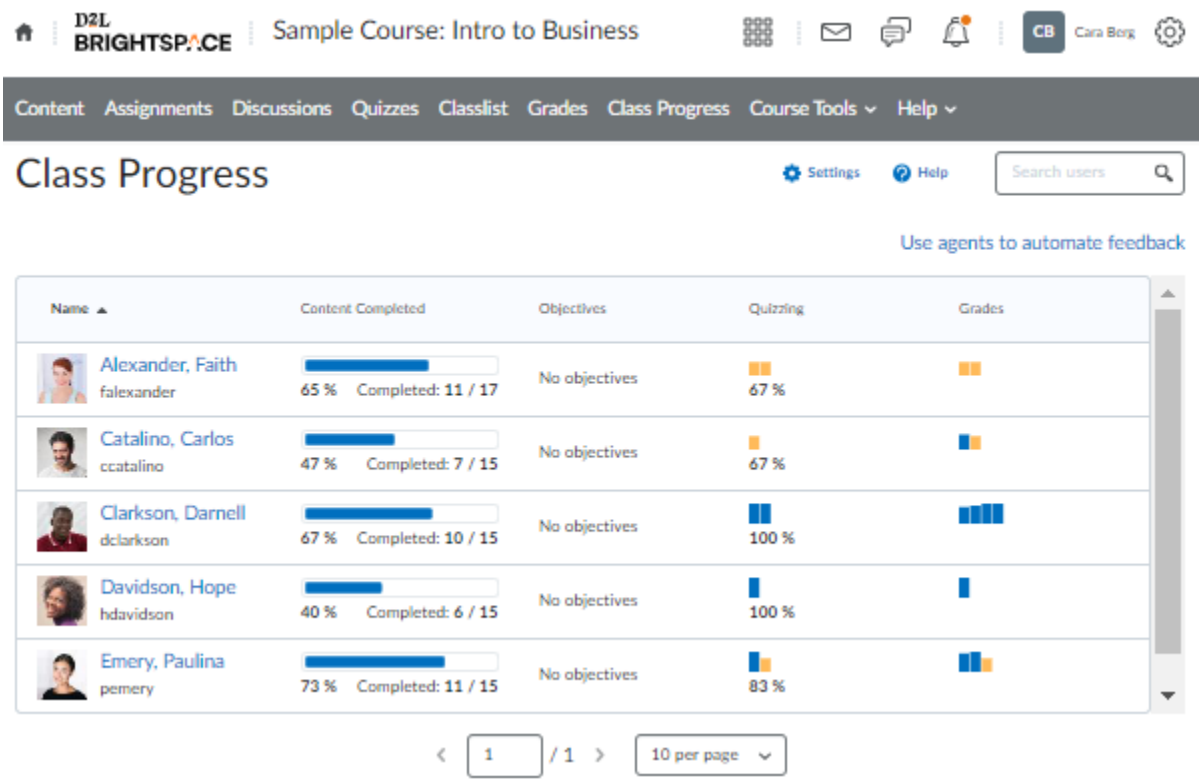
Have questions about course content or assessments? Post to the Course Questions discussion topic so we can all benefit from answers shared.

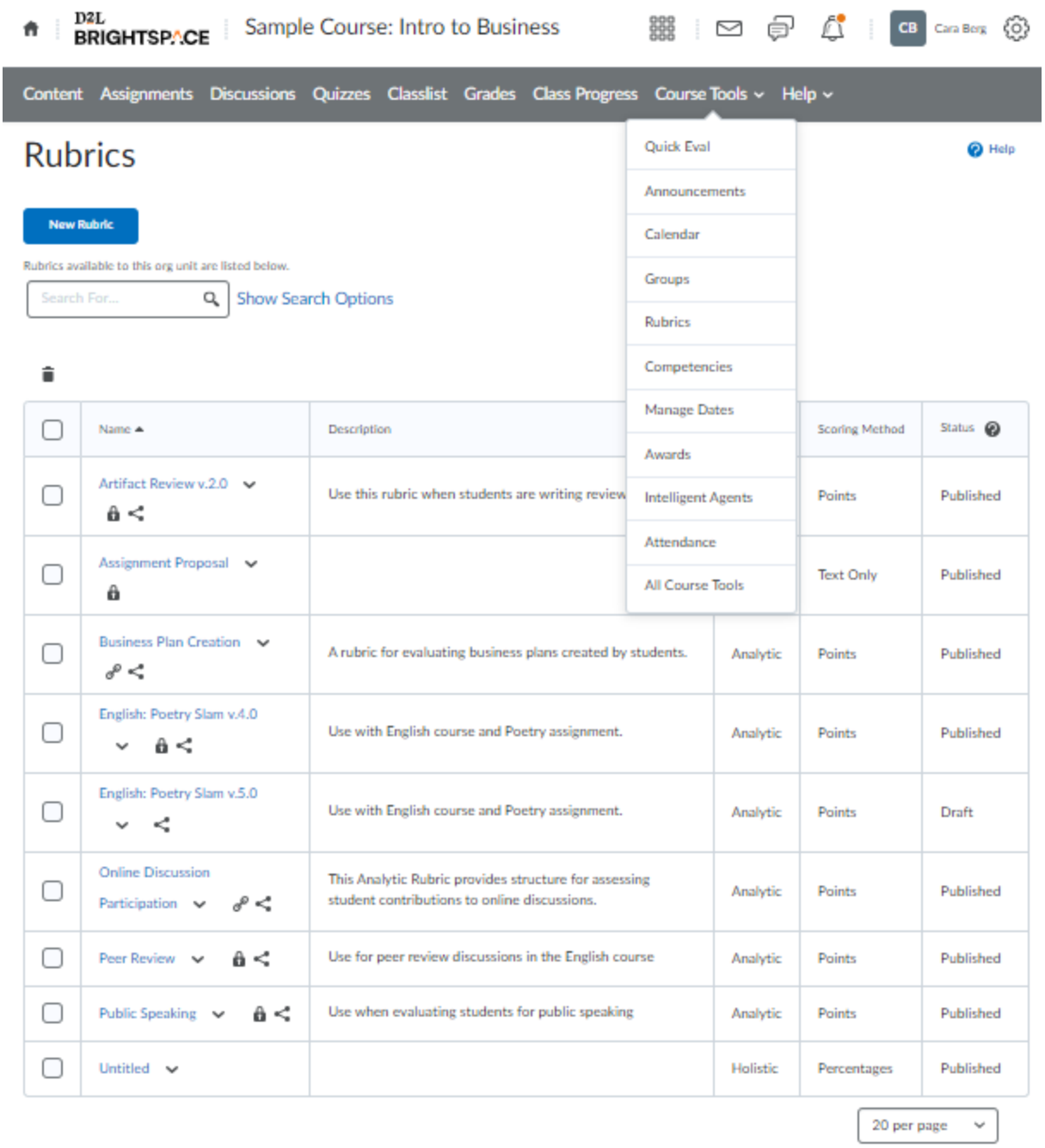
Topic	Threads	Posts	Last Post
Welcome to College Life! Welcome to college! Within the first two weeks of the course, please take some time to introduce yourself to me and your peers. You might want to tell us where "home" is for you, about a favorite hobby/activity you have, goals you are thinking about this term, or any other details you want to share.  *Aim to make your initial post about 150-200 words. Be sure to also make your peers feel welcome by saying "hello" on their threads. Can you @mention a peer to help make connections? Try to do this at least once! I am looking forward to meeting you all soon, Dr. M.	2	3 (3)	Paulina Emery 21 minutes ago
Course Questions This space is reserved for any questions you might have about course content or assessments. This is a great space to collaborate and learn from one another!	1	2 (2)	Darnell Clarkson 21 minutes ago
Study Group Has release conditions. Please use this Discussion Forum to connect with peers interested in forming a study group.	0	0	

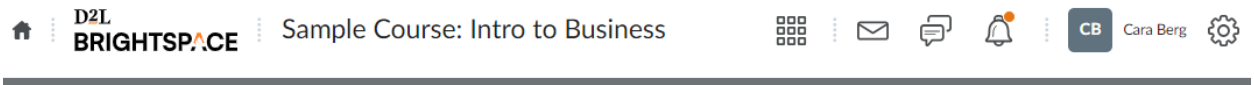
Weekly Discussions

Participation in our course discussions is an important element of Introduction to Business. Within each unit, please ensure you make one original post and then respond to at least two posts from your peers. Remember the option to @mention peers as well; this helps us to bridge connections between the ideas shared.


D2L BRIGHTSPACE
Sample Course: Intro to Business
CB
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Content
Assignments
Discussions
Quizzes
Classlist
Grades
Class Progress
Course Tools
Help
Classlist
Print
Settings
Help
Enrollment Statistics
All
Instructor(s)
TAs
Students
Search For...
Show Search Options
Instant Message
Print
Image
Last Name, First Name
Role
Last Accessed
Alexander, Faith
Student
Jan 29, 2024 10:20 AM
Berg, Cara
Instructor
Jan 29, 2024 10:41 AM
Catalino, Carlos
Student
Jan 29, 2024 10:20 AM
Clarkson, Darnell
Student
Jan 29, 2024 10:20 AM
Davidson, Hope
Student
Jan 29, 2024 10:20 AM
Davis, Regina
Instructor
Emery, Paulina
Student
Jan 29, 2024 10:20 AM
25 per page
Total Users: 7
Enter Grades
Manage Grades
Schemes
Setup Wizard
Import
Export
Switch to Spreadsheet View
More Actions
Show Search Options
Final Grades
Discussions
Weekly Quizzes
Final Calculated Grade
Week 1 Discussion
Week 2 Discussion
Week 3 Discussion
Subtotal
Week 1 Quiz
Week 2 Quiz
Week 3 Quiz
Subtotal
Alexander, Faith
66.67 %
66.67 %
66.67 %
13.33 / 20, 66.67 %
Catalino, Carlos
70.83 %
6.67 / 10, 66.67 %
Clarkson, Darnell
93.33 %
83.33 %
8.33 / 10, 83.33 %
100 %
100 %
20 / 20, 100 %
Davidson, Hope
100 %
100 %
10 / 10, 100 %
Emery, Paulina
86.39 %
92.5 %
9.25 / 10, 92.5 %
100 %
66.67 %
16.67 / 20, 83.33 %
25 per page


D2L BRIGHTSPACE
Sample Course: Intro to Business
CB
Cara Berg
Content
Assignments
Discussions
Quizzes
Classlist
Grades
Class Progress
Course Tools
Help
Class Progress
Settings
Help
Search users
Use agents to automate feedback
Name
Content Completed
Objectives
Quizzing
Grades
Alexander, Faith
falexander
65 % Completed: 11 / 17
No objectives
67 %
Catalino, Carlos
ccatalino
47 % Completed: 7 / 15
No objectives
67 %
Clarkson, Darnell
dclarkson
67 % Completed: 10 / 15
No objectives
100 %
Davidson, Hope
hdavidson
40 % Completed: 6 / 15
No objectives
100 %
Emery, Paulina
pemery
73 % Completed: 11 / 15
No objectives
83 %
1
/ 1
10 per page


D2L BRIGHTSPACE
Sample Course: Intro to Business
CB
Cara Berg
Content
Assignments
Discussions
Quizzes
Classlist
Grades
Class Progress
Course Tools
Help
Quick Eval
Announcements
Calendar
Groups
Rubrics
Competencies
Manage Dates
Awards
Intelligent Agents
Attendance
All Course Tools
Rubrics
Help
New Rubric
Rubrics available to this org unit are listed below.
Search For...
Show Search Options
Name
Description
Scoring Method
Status
Artifact Review v.2.0
Use this rubric when students are writing review
Points
Published
Assignment Proposal
Text Only
Published
Business Plan Creation
A rubric for evaluating business plans created by students.
Analytic
Points
Published
English: Poetry Slam v.4.0
Use with English course and Poetry assignment.
Analytic
Points
Published
English: Poetry Slam v.5.0
Use with English course and Poetry assignment.
Analytic
Points
Draft
Online Discussion Participation
This Analytic Rubric provides structure for assessing student contributions to online discussions.
Analytic
Points
Published
Peer Review
Use for peer review discussions in the English course
Analytic
Points
Published
Public Speaking
Use when evaluating students for public speaking
Analytic
Points
Published
Untitled
Holistic
Percentages
Published
20 per page



Edit Rubric

Status: Published

This rubric can only be edited from the org unit that shared it

Artifact Review v.2.0

Criteria	**Proficient** 4 points	**Satisfactory** 2 points	**Needs Work** 1 point	**Criterion Score**
Technical	Uses **ALL 6 elements:** Hook; Map; Paraphrase; Illustrative Analysis; Contrary Penultimate Paragraph; Conclusion	Uses **4 of the 6 elements:** Hook; Map; Paraphrase; Illustrative Analysis; Contrary Penultimate Paragraph; Conclusion	Uses **2 of the 6 elements:** Hook; Map; Paraphrase; Illustrative Analysis; Contrary Penultimate Paragraph; Conclusion	/ 4
Organization	Review is strongly organized with clear transitions and logical connections that create a sense of being tightly woven together	Review lacks strong organization; jumps around too much or lacks effective transitions; not in logical order	Review is choppy or in-cohesive; organization is unclear; few effective transitions	/ 4
Format	**0-1** formatting errors	**2-5** formatting errors	**6 or more** formatting errors	/ 4

Total	/ 12

Technological advancements

Blackboard, Canvas, and D2L demonstrate a commitment to technological innovation by integrating AI-driven features to enhance teaching and learning experiences. These AI capabilities empower instructors with actionable insights into student performance and engagement, enabling personalized interventions to support student success.

Canvas and D2L provide extensive support for LTIs, offering instructors flexibility and customization options to enhance their courses with third-party tools and services. The seamless integration of external resources within the LMS environment facilitates a cohesive learning experience for students while maximizing instructional effectiveness.

Each LMS platform offers unique advantages and considerations, such as user interface design, scalability, and institutional requirements, which should be carefully evaluated by institutions during the selection process. Factors such as ease of use, accessibility, and ongoing support services are also essential considerations for successful LMS implementation and adoption.

	Blackboard	Canvas	D2L
Artificial Intelligence (AI) Integration	Incorporates AI-driven features, such as predictive analytics, to analyze student data and provide personalized recommendations for instructors. Enable instructors to identify at-risk students, tailor instructional materials, and optimize course design for improved student engagement and outcomes.	Leverages AI technology to power its virtual assistant, Canvas Chatbot which offers real-time support to students and instructors, answering queries and providing guidance within the platform. Utilizes machine learning algorithms to enhance grading efficiency and provide personalized feedback to students.	Integrates AI through its Intelligent Agent feature, allowing for automated communication and personalized feedback based on student interactions. Intelligent Agents analyze student data to deliver timely interventions and support, enhancing the learning experience and promoting student success.
Learning Analytics	Offers robust learning analytics capabilities, allowing instructors to track student progress, monitor engagement, and assess learning outcomes effectively.	Provides robust learning analytics capabilities, allowing instructors to track student progress, monitor engagement, and assess learning outcomes effectively.	Provides powerful learning analytics capabilities, allowing instructors to track student progress, monitor engagement, and assess learning outcomes effectively.

	Provides data visualization tools and dashboards to help instructors gain insights into student performance and identify areas for improvement.	Offers data visualization tools and dashboards to help instructors gain insights into student performance and identify areas for improvement.	Offers data visualization tools and dashboards to help instructors gain insights into student performance and identify areas for improvement.
Learning Tools Interoperability (LTIs)		Boasts extensive compatibility with LTIs, facilitating easy integration with external tools and services to enhance teaching and learning experiences.	Offers robust support for LTIs, ensuring interoperability with various educational tools and services. Enables institutions to integrate existing educational technology seamlessly, expanding the functionality of the platform and enhancing the learning experience for students.
Mobile Compatibility	Has enhanced mobile compatibility, with dedicated mobile apps for both instructors and students. Allow users to access course materials, participate in discussions, submit assignments, and receive notifications on-the-go, enhancing flexibility and accessibility for users.	Offers dedicated mobile apps for both instructors and students, allowing users to access course materials, participate in discussions, submit assignments, and receive notifications on-the-go. Enhance flexibility and accessibility, enabling users to engage with course content anytime, anywhere.	Provides dedicated mobile apps for both instructors and students, enabling access to course materials, participation in discussions, submission of assignments, and receipt of notifications on mobile devices. Enhances flexibility and accessibility, allowing users to engage with course content anytime, anywhere.
Integration with External Tools and Applications	Supports Learning Tools Interoperability (LTI), enabling seamless integration with a wide range of external tools and applications.	Provides robust learning analytics capabilities, allowing instructors to track student progress, monitor engagement,	

	Allows instructors to incorporate third-party content repositories, video conferencing platforms, and assessment tools directly into their courses, enhancing instructional flexibility and customization.	and assess learning outcomes effectively. Offers data visualization tools and dashboards to help instructors gain insights into student performance and identify areas for improvement.	
Enhanced User Experience	Continually updates its user interface and user experience (UI/UX) design to improve usability and accessibility for both instructors and students including streamlined navigation, intuitive course design tools, and customizable layouts to create a more engaging and user-friendly learning environment.	Continually updates its user interface and user experience (UI/UX) design to improve usability and accessibility for both instructors and students including streamlined navigation, intuitive course design tools, and customizable layouts to create a more engaging and user-friendly learning environment.	Continually updates its user interface and user experience (UI/UX) design to improve usability and accessibility for both instructors and students including streamlined navigation, intuitive course design tools, and customizable layouts to create a more engaging and user-friendly learning environment.
Collaborative Tools and Communication Features	Offers a range of collaborative tools and communication features to facilitate interaction and engagement among students and instructors including discussion forums, group assignments, virtual classrooms, and messaging tools, enabling effective communication and collaboration within the learning environment.	Offers a range of collaborative tools and communication features to facilitate interaction and engagement among students and instructors including discussion forums, group assignments, virtual classrooms, and messaging tools, enabling effective communication and collaboration within the learning environment.	Offers a variety of collaborative tools and communication features to facilitate interaction and engagement among students and instructors including discussion boards, group workspaces, virtual classrooms, and messaging tools, enabling effective communication and collaboration within the learning environment.

Other Features	Accessibility Features commit to accessibility and provides features and tools to ensure that the platform is accessible to users with disabilities including support for screen readers, keyboard navigation, alternative text for images, and compatibility with assistive technologies, ensuring that all users can access and engage with course content effectively.	Open Architecture and Extensibility supports to enable easy integration with third-party systems and services, allowing institutions to extend the functionality of the platform and customize it to meet specific pedagogical needs and objectives.	Personalized Learning Pathways support personalized learning pathways through features such as adaptive learning, competency-based education, and personalized content recommendations. Enable instructors to tailor instruction to individual student needs and preferences, fostering a more personalized and engaging learning experience.

The decision to select an LMS platform represents a significant investment for higher education institutions, with implications for teaching, learning, and institutional effectiveness. By comparing and evaluating LMS platforms such as Blackboard, Canvas, and D2L in terms of their technological advancements and innovations, WPU can make informed decisions that align with their educational goals and priorities. Ultimately, the successful implementation of an advanced LMS platform can enhance the teaching and learning experience, promote student engagement and success, and position for continued innovation and growth in the digital age.

Integration Capabilities

Learning Management Systems (LMSs) play a crucial role in modern education by providing a platform for the management, delivery, and assessment of educational content. One key aspect of LMS functionality is its integration capabilities, which enable seamless connectivity with external tools, applications, and academic systems. In this report, the summary of a comparative analysis of the integration capabilities of three prominent LMS platforms is provided: Blackboard, Canvas, and D2L.

	Blackboard	Canvas	D2L
Learning Tools Interoperability (LTIs)	Supports LTIs, allowing seamless integration with a wide range of external tools and applications. Enables instructors to incorporate third-party content repositories, video conferencing platforms, plagiarism detection tools, and other educational resources directly into their courses, enhancing instructional flexibility and customization.	Boasts extensive compatibility with LTIs, facilitating easy integration with external tools and services to enhance teaching and learning experiences. Support enable institutions to customize their LMS environment and maximize instructional effectiveness.	Offers robust support for LTIs, ensuring interoperability with various educational tools and services. Enables institutions to integrate existing educational technology seamlessly, expanding the functionality of the platform and enhancing the learning experience for students.
External Content Integration	Allows for the integration of external content, including multimedia resources, documents, and web-based applications, into course materials. Instructors can embed external content within their courses, providing students with access to additional resources and enhancing the learning experience.	Allows integration with various external applications and services, including student information systems (SIS), library systems, video conferencing platforms, and online assessment tools. Enables institutions to leverage existing investments in educational technology and infrastructure while expanding the	Allows integration with various external applications and services, including SIS, library systems, video conferencing platforms, and online assessment tools. Enables institutions to leverage existing investments in educational technology and infrastructure while expanding the functionality of the D2L platform.

		functionality of the Canvas platform.	
Third-Party Application Integration	Integrates with various third-party applications and services, including student information systems (SIS), library systems, video conferencing platforms, and online assessment tools. Enables institutions to leverage existing investments in educational technology and infrastructure while expanding the functionality of the Blackboard platform.	Supports the integration of external content repositories and multimedia resources into course materials. Instructors can embed external content directly within their courses, providing students with access to additional resources and enhancing the learning experience.	Supports the integration of external content repositories and multimedia resources into course materials. Instructors can embed external content directly within their courses, providing students with access to additional resources and enhancing the learning experience.
Custom Development and API (Application Programming Interfaces) Support	Provides APIs that allow developers to create custom integrations and extend the functionality of the platform. Allows to develop custom plugins, modules, and applications to integrate with Blackboard LMS, enabling tailored solutions to meet specific instructional needs and objectives.	Provides APIs that allow developers to create custom integrations and extend the functionality of the platform. Allow to develop custom plugins, modules, and applications to integrate with Canvas LMS, enabling tailored solutions to meet specific instructional needs and objectives.	Provides APIs that allow developers to create custom integrations and extend the functionality of the platform. Allow to develop custom plugins, modules, and applications to integrate with D2L LMS, enabling tailored solutions to meet specific instructional needs and objectives.
Single Sign-On (SSO) Integration	Supports SSO integration with identity management systems and authentication providers.	Supports SSO integration with identity management systems and authentication providers.	Supports SSO integration with identity management systems and authentication providers.

	Allows users to access Blackboard LMS using their existing credentials, streamlining the login process and enhancing security.	Allows users to access Canvas LMS using their existing credentials, streamlining the login process and enhancing security.	Allows users to access D2L LMS using their existing credentials, streamlining the login process and enhancing security.
Content Standards Compliance	Ensures compliance with content standards such as SCORM (Sharable Content Object Reference Model) and xAPI (Experience API), enabling interoperability with content authoring tools and learning content repositories. This compliance facilitates the seamless integration of standardized learning content into Blackboard courses.	Ensures compliance with content standards such as SCORM and xAPI, enabling interoperability with content authoring tools and learning content repositories. This compliance facilitates the seamless integration of standardized learning content into Canvas courses.	Ensures compliance with content standards such as SCORM and xAPI, enabling interoperability with content authoring tools and learning content repositories. This compliance facilitates the seamless integration of standardized learning content into D2L courses.
Integration with Academic Systems	Integrates with academic systems such as student information systems (SIS) and course management systems (CMS), enabling data synchronization and seamless course provisioning. Ensures that course enrollments, user accounts, and other relevant data are automatically updated and synchronized between Blackboard and academic systems.	Integrates with academic systems such as SIS and CMS, enabling data synchronization and seamless course provisioning. Ensures that course enrollments, user accounts, and other relevant data are automatically updated and synchronized between Canvas and academic systems.	integrates with academic systems such as SIS and CMS, enabling data synchronization and seamless course provisioning. Ensures that course enrollments, user accounts, and other relevant data are automatically updated and synchronized between D2L and academic systems.

The integration capabilities of Blackboard, Canvas, and D2L LMS platforms play a crucial role in enhancing instructional flexibility, customization, and interoperability with external tools and systems. While all three platforms offer robust integration capabilities, the decision

makers should carefully evaluate their specific needs and requirements to select the LMS that best aligns with their educational goals and objectives. By leveraging the integration capabilities of these LMS platforms, institutions can create a connected and cohesive learning environment that supports student success and enhances the teaching and learning experience.

Training and Transition Support

Training and transition support are essential components of successful adoption and utilization of Learning Management Systems (LMSs) in educational institutions. Effective training programs and transition support services help users navigate the complexities of LMS platforms, maximize their utilization, and ensure smooth transitions from legacy systems. In this report, a summary of a comparative analysis of the training and transition support offerings is provide.

	Blackboard	Canvas	D2L
Training Resources	Offers a variety of training resources, including online tutorials, video guides, user manuals, and knowledge bases. These resources cover various aspects of the platform's features and functionalities, providing users with the necessary guidance to navigate the platform effectively.	Provides comprehensive online guides and documentation, offering step-by-step instructions, tutorials, and troubleshooting tips. Offers instructor-led workshops, webinars, and virtual training sessions to support educators in using the platform for teaching and learning.	Offers access to the Brightspace Community, an online hub where users can find resources, engage in discussions, and connect with peers. Provides comprehensive help and documentation resources within the D2L platform, including user guides, tutorials, and FAQs.
Instructor Training Programs	Provides instructor training programs designed to help educators effectively utilize the platform for teaching and learning including instructor-led workshops, webinars, and virtual training sessions covering topics such as course design, pedagogical strategies, and best practices for using Blackboard tools and features.	Offers instructor training programs designed to support educators in using the platform for teaching and learning including instructor-led workshops, webinars, and virtual training sessions covering topics such as course design, assessment strategies, communication tools, and instructional best practices.	Offers instructor training and certification programs designed to support educators in using the Brightspace platform effectively including instructor-led workshops, online courses, webinars, and certification exams covering topics such as course design, assessment strategies, and pedagogical approaches.

	Blackboard	Canvas	D2L
Administrator Training Programs	Offers training programs for administrators responsible for managing and configuring the LMS at institutional or departmental levels covering topics such as system administration, user management, course provisioning, and customization options to meet institutional requirements.	Provides training programs for administrators responsible for managing and configuring the LMS at institutional or departmental levels covering topics such as system administration, user management, course provisioning, customization options, and integration with external systems.	Provides training and certification programs for administrators responsible for managing and configuring the D2L platform at institutional or departmental levels covering topics such as system administration, user management, course provisioning, and customization options.
On-Demand Support	Offers on-demand support options, including online help desks, community forums, email support, and live chat with customer service representatives to assist users with troubleshooting issues and answering questions related to platform usage.	Provides on-demand support options to assist users with troubleshooting technical challenges and accessing help resources. Users can access support through various channels, including online help desks, community forums, and email support.	Offers on-demand support options, including online help desks, community forums, and live chat with customer service representatives. Users can also access support resources within the Brightspace platform, including user guides and tutorials.
Transition Planning and Consulting	Offers transition planning and consulting services to assist institutions in migrating to the Blackboard platform including needs assessment, project planning, data migration, customization, and post-implementation support.	Offers transition planning and consulting services to assist institutions in migrating to the Canvas platform including needs assessment, project planning, data migration, and post-implementation support to ensure a smooth transition.	Offers transition planning and consulting services to assist institutions in migrating to the Brightspace platform including needs assessment, project planning, data migration, customization, and post-implementation support.

	Blackboard	Canvas	D2L
User Communities and Networking	Fosters user communities and networking opportunities to facilitate collaboration, knowledge sharing, and peer-to-peer support among users including online forums, user groups, professional associations, and conferences where users can connect, share experiences, and learn from each other.	Fosters user communities and networking opportunities to facilitate collaboration, knowledge sharing, and peer-to-peer support among users including online forums, user groups, professional associations, and conferences where users can connect, share experiences, and learn from each other.	
Continuous Professional Development	Promotes continuous professional development for educators and administrators through ongoing training opportunities, professional development courses, and certification programs to support lifelong learning, skill development, and proficiency in using Blackboard tools and technologies.	Promotes continuous professional development for educators and administrators through ongoing training opportunities, professional development courses, and certification programs to support lifelong learning, skill development, and proficiency in using Canvas tools and technologies.	Promotes continuous professional development for educators and administrators through ongoing training opportunities, professional development courses, and certification programs to support lifelong learning, skill development, and proficiency in using D2L tools and technologies.

Blackboard, Canvas, and D2L offer comprehensive training and transition support programs to assist users in effectively utilizing their respective LMS platforms. By investing in training and transition support services, it is important to ensure a smooth transition to the chosen LMS platform and maximize its benefits for teaching, learning, and administration.

Strategic Alignment of LMS to WPU Mission

In a post-pandemic world, William Paterson University is adjusting to a new landscape along with other higher education institutions. By carefully considering the strategic plan and features of LMSs, WPU can meet the demographic needs and other challenges to leverage its traditional strengths in student success while also adapting to serve new markets in the online programs.

This Strategic Plan consists of five pillars on which the University community is concentrating its collective efforts:



Among the William Paterson University Strategic Plan 2022-2025 (Pillars for Strategic Plan), the following three pillars were considered in connection with the LMS as a measure: How they are strategically aligned with WPU's strategic plan (Source: IT Plan 2024-2026).

Pillar I: Developing Robust Policies, Programs and Delivery Modalities for Adult Learners

- IT administers and trains/assists faculty on the use of Blackboard, WPs Learning Management System, which houses our online, hybrid, and face-to-face courses.

Pillar IV: Decolonizing the University

- As William Paterson faculty decolonize their courses, IT's Instructional Designers will assist them in updating/changing their Blackboard shells accordingly. Our ongoing work in promoting accessibility will continue, thereby further ensuring that course shells and materials are available in a variety of formats for the benefit of all students.

Pillar V: Mission Statement

- All of Information Technology's work directly supports the educational and administrative mission goals of the University.







Pillar I: Adult Learning	Pillar IV: Decolonization	Pillar V: Mission Statement

The selection of a LMS is a strategic decision for William Paterson University. The LMS chosen should align closely with the university's mission, goals, and strategic plan. This section of the report presents a comparative analysis of how Blackboard, Canvas, and D2L LMS align strategically with the mission of William Paterson University.

Blackboard LMS can support adult learning and decolonization initiatives through various features such as discussion boards, collaboration tools, and multimedia content sharing. Faculty can create online spaces for students to engage in political debates, advocacy projects, and community service initiatives. Blackboard's integration capabilities can facilitate partnerships with external organizations involved in WPU's strategic plan efforts.

Canvas LMS offers tools for facilitating student collaboration, community engagement, and service-learning projects. Features like group discussions, peer review assignments, and virtual collaboration spaces can support students in participating in WP Online programs and decolonizing university projects. Canvas's mobile-friendly interface enables students to access course materials and participate in the WP Online program from any device.

D2L Brightspace provides features that support active learning, WP Online program, and decolonizing university efforts. Tools like discussion boards, multimedia content creation, and virtual classrooms can be used to facilitate student in WPU's strategic plan. D2L's

integration capabilities can streamline communication and collaboration between students, faculty, and external partners involved in the adult learning and decolonization initiatives.

All three LMS platforms—Blackboard, Canvas, and D2L Brightspace—have the potential to align with William Paterson University's strategic plan related to Adult Learning and Decolonization initiatives. The choice of LMS will depend on factors such as user preferences, institutional requirements, and the specific features and capabilities needed to support the specific university's strategic plan in these areas.

	Blackboard	**Canvas**	**D2L**
Enhanced Teaching and Learning Experience	Provides tools and features that support various teaching and learning methodologies, aligning with William Paterson University's goal of enhancing the overall educational experience for students and faculty. Features such as course content management, online assessments, discussion boards, and multimedia integration align with the university's commitment to fostering innovative and engaging teaching practices.	Provides a user-friendly interface and a range of tools and features that support various teaching and learning methodologies, aligning with William Paterson University's goal of enhancing the overall educational experience for students and faculty. Features such as content management, online assessments, discussion boards, and multimedia integration align with the university's commitment to fostering innovative and engaging teaching practices.	Offers a range of tools and features that support various teaching and learning methodologies, aligning with William Paterson University's goal of enhancing the overall educational experience for students and faculty. Features such as content management, online assessments, discussion boards, and multimedia integration provide opportunities for interactive and engaging learning experiences.
Flexibility and Customization	Offers customization options that allow William Paterson University to tailor the LMS to its specific needs and requirements. Customization features such as course templates, branding options, and integration with external tools align	Offers customization options that allow William Paterson University to tailor the LMS to its specific needs and requirements. Customization features such as course templates, branding options, and	Provides customization options that allow William Paterson University to tailor the LMS to its specific needs and requirements. Customization features such as course templates, branding options, and integration with external tools

	with the university's goal of providing a flexible and personalized learning environment for students and faculty.	integration with external tools align with the university's goal of providing a flexible and personalized learning environment for students and faculty.	enable the university to create a personalized learning environment that meets the unique needs of its students and faculty.
Integration with Academic Systems	Integrates seamlessly with academic systems such as SIS and learning analytics platforms, enabling William Paterson University to streamline administrative processes and access valuable insights into student performance and engagement. Integration capabilities align with the university's goal of leveraging technology to support data-informed decision-making and improve student outcomes.	Integrates seamlessly with academic systems such as SIS and learning analytics platforms, enabling William Paterson University to streamline administrative processes and access valuable insights into student performance and engagement. Integration capabilities align with the university's goal of leveraging technology to support data-informed decision-making and improve student outcomes.	Integrates seamlessly with academic systems such as SIS and learning analytics platforms, enabling William Paterson University to streamline administrative processes and access valuable insights into student performance and engagement. Integration capabilities align with the university's goal of leveraging technology to support data-informed decision-making and improve student outcomes.
Support for Online Adult Learning	Robust online learning features, including virtual classrooms, multimedia content delivery, and asynchronous communication tools, align with William Paterson University's goal of expanding access to higher education through WP online programs. Blackboard's mobile-friendly interface and support for hybrid and	Features, such as virtual classrooms, multimedia content delivery, and asynchronous communication tools, align with the WP online programs. Canvas's mobile-friendly interface and support for hybrid and fully online courses align with the university's commitment to	Online learning features, including virtual classrooms, multimedia content delivery, and asynchronous communication tools, align with the WP online programs. D2L Brightspace's mobile-friendly interface and support for hybrid and fully online courses align with the university's commitment to meeting the diverse

	fully online courses align with the university's commitment to meeting the diverse needs of its student population.	meeting the diverse needs of its student population.	needs of its student population.
Professional Development and Training	Provides training and support resources for faculty and staff, including instructor-led workshops, online tutorials, and user communities, aligning with William Paterson University's goal of promoting continuous professional development and technological literacy among its academic community. Training resources help faculty and staff maximize their use of Blackboard's features and stay updated on best practices in online teaching and learning.	provides training and support resources for faculty and staff, including instructor-led workshops, online tutorials, and user communities, aligning with William Paterson University's goal of promoting continuous professional development and technological literacy among its academic community. Training resources help faculty and staff maximize their use of Canvas's features and stay updated on best practices in online teaching and learning.	Provides training and support resources for faculty and staff, including instructor-led workshops, online tutorials, and user communities, aligning with William Paterson University's goal of promoting continuous professional development and technological literacy among its academic community. Training resources help faculty and staff maximize their use of D2L Brightspace's features and stay updated on best practices in online teaching and learning.

The strategic alignment between each LMS and William Paterson University is evident in the platform's ability to enhance teaching and learning experiences, provide flexibility and customization, integrate with academic systems, support distance learning and online education, and promote professional development and training for faculty and staff. These alignments contribute to the university's mission of providing high-quality education and preparing students for success in a rapidly evolving digital world.

Each LMS—Blackboard, Canvas, and D2L Brightspace—offers unique features and capabilities that align with William Paterson University's strategic objectives. While Blackboard provides robust integration capabilities and support for distance learning, Canvas offers flexibility and customization options. D2L Brightspace provides a user-friendly interface and support for online education

The strategic alignment of Learning Management Systems (LMS) with William Paterson University's Strategic Plan 2022-2025 is crucial for achieving the institution's goals and

objectives. By leveraging the capabilities of LMS, WPU can effectively address the pillars of its strategic plan, from supporting adult learners and exploring alternate credentials to reducing attrition rates and promoting decolonization. Information Technology plays a pivotal role in facilitating this alignment by providing administrative support, technical expertise, and resources to empower faculty and enhance the overall learning experience for students. Through collaborative efforts between IT and academic stakeholders, WPU can leverage its LMS platforms to realize its mission of providing a just and equitable educational experience for all.

Product Pricing Summary

William Paterson University relies on the LMS to facilitate seamless content delivery, interactive engagement, and efficient management of instructional resources. Among the leading contenders in the LMS market, Blackboard, Canvas, and D2L have established themselves as prominent solutions, each offering unique features and functionalities. As CTT assess the suitability of these platforms for their specific needs, a critical factor that demands careful consideration is the pricing structure. A comprehensive comparison of the pricing models adopted by Blackboard, Canvas, and D2L. Understanding the cost implications is crucial for WPU seeking to optimize their budgetary allocations while ensuring they acquire a robust and scalable LMS solution. This section aims to provide a detailed analysis of the pricing strategies employed by each platform, shedding light on the associated costs, potential hidden fees, and value propositions that contribute to the overall decision-making process for educational stakeholders.

Blackboard Quote (2021-2025)

Qty	Product Code	Product or Service	Initial Term Period #1 Effective Dates	Initial Term Period #1 (USD)	Initial Term Period #2 01-Jul-2021 - 30-Jun-2022 (USD)	Initial Term Period #3 01-Jul-2022 - 30-Jun-2023 (USD)	Initial Term Period #4 01-Jul-2023 - 30-Jun-2024 (USD)	Initial Term Period #5 01-Jul-2024 - 30-Jun-2025 (USD)
1	SAAS2-LE2-HE-P	LEARNING ESSENTIALS SAAS PLUS, 8,001 - 15,000 FTE	01-Jul-2020 - 30-Jun-2021	$171,000.00	$171,000.00	$171,000.00	$171,000.00	$171,000.00
1	AS-TPD-S	TRAINING PROGRAM DEVELOPMENT - SUBSCRIPTION		Included	Included	Included	Included	Included
1	AS-TRN-OLN-S	ONLINE TRAINING SUBSCRIPTION		Included	Included	Included	Included	Included
1	AS-LRN-SAAS2	BLACKBOARD LEARN SAAS PLUS		Included	Included	Included	Included	Included
1	CL-WC-SAAS	WEB CONFERENCING SAAS DEPLOYMENT		Included	Included	Included	Included	Included
1	AS-HST-MIGR-SAAS	SAAS HOSTING MIGRATION FEE		$10,000.00	NA	NA	NA	NA
1	AS-MIGR-ARCHIVE	LEARN MIGRATION ARCHIVE		$0.00	NA	NA	NA	NA
2	AS-HST-STO1TB-SAAS	SAAS ADDITIONAL STORAGE 1TB		$0.00	$0.00	$0.00	$0.00	$0.00
1	AS-ALY-BBL-P	BLACKBOARD ALLY PKG - LEARN, 8,001 - 15,000 FTE	19-Dec-2020 - 30-Jun-2021	$25,730.62	$26,000.00	$26,000.00	$26,000.00	$26,000.00
1	AS-ALY-BBL	BLACKBOARD ALLY FOR LEARN		Included	Included	Included	Included	Included
			Total	**$206,730.62**	**$197,000.00**	**$197,000.00**	**$197,000.00**	**$197,000.00**

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Canvas Quote (2024-2027)

Order Form For William Paterson University of New Jersey

Year 1

Description	Start Date	End Date	Metric	Qty	Price	Amount
Canvas LMS Cloud Subscription	2025-01-01	2025-12-31	FTE	7,586	USD 18.79	USD 142,540.94
24x7 Support	2025-01-01	2025-12-31	20% of Subscription (Minimums Apply)	1	USD 28,508.19	USD 28,508.19
Tier 1 Support	2025-01-01	2025-12-31	FTE	7,586	USD 3.50	USD 26,551.00
Scaffold Archiving by K16 Solutions	2025-01-01	2025-12-31	Per Course	1	USD 33,000.00	USD 33,000.00
Recurring Sub-Total						USD 230,600.13
Canvas LMS - Tier 1 Support Setup			One Time Fee	1	USD 500.00	USD 500.00
Non-Recurring Sub-Total						USD 500.00
Year 1 Total						USD 231,100.13

Year 2

Description	Start Date	End Date	Metric	Qty	Price	Amount
Canvas LMS Cloud Subscription	2026-01-01	2026-12-31	FTE	7,586	USD 19.73	USD 149,671.78
24x7 Support	2026-01-01	2026-12-31	20% of Subscription (Minimums Apply)	1	USD 29,934.36	USD 29,934.36
Tier 1 Support	2026-01-01	2026-12-31	FTE	7,586	USD 3.50	USD 26,551.00
Scaffold Archiving by K16 Solutions	2026-01-01	2026-12-31	Per Course	1	USD 33,000.00	USD 33,000.00
Recurring Sub-Total						USD 239,157.14
Year 2 Total						USD 239,157.14

Year 3

Description	Start Date	End Date	Metric	Qty	Price	Amount
Canvas LMS Cloud Subscription	2027-01-01	2027-12-31	FTE	7,586	USD 20.71	USD 157,106.06
24x7 Support	2027-01-01	2027-12-31	20% of Subscription (Minimums Apply)	1	USD 31,421.21	USD 31,421.21
Tier 1 Support	2027-01-01	2027-12-31	FTE	7,586	USD 3.50	USD 26,551.00
Scaffold Archiving by K16 Solutions	2027-01-01	2027-12-31	Per Course	1	USD 33,000.00	USD 33,000.00
Recurring Sub-Total						USD 248,078.27
Year 3 Total						USD 248,078.27
					Grand Total:	USD 718,335.54

D2L Quote (Non WPU Quote)

On February 5, 2024, the investigator met with Dave Trygar from D2L to discuss the product quote for William Paterson University. However, he has not provided the quote as of 2/20/2024. In order to figure out the product pricing information, this section mainly discuss the quote available on the Internet sources.

Based on the information available on the Internet, the product pricing was calculated as follows. Below are the total costs for these different subscription durations. (Additional taxes or fees may apply.)

Brightspace Enterprise Plan		
Users	**Description**	**12 MONTHS**
D2L Brightspace	500 users - D2L Brightspace Enterprise Plan	$30,000

WPU 10,000 Users – 20 (500) x $30,000 = 600,000 (1 year) *

*Source: https://aws.amazon.com/marketplace/pp/prodview-4uwkid67qefsk

Pricing Comparison of the LMSs

At first glance, Canvas pricing is higher than the other two competitors. The goal is to negotiate pricing for recurring costs to be approximately the same or lower as compared to current annual expenditures for Blackboard Learn, and to reduce the cost of the one-time expenses associated with migrating to the extent possible. The fiscal year impacts also need to be revisited based on a sensible migration over time rather than a conversation where there is a single cutover date from the current system to a new one. (Based on Framingham State University, Student population of 5,953)

CATEGORY	Blackboard	Canvas	Brightspace
Learn Environment	$130,748	$108,103	$108,000
Migration Services	$19,200	$33,700	$54,600
Add-on Services	$0	$38,464	$16,200
Fiscal Year 2021-2022	$149,948.00	$180,268.00	$147,750.00
Fiscal Year 2022-2023	$115,100.00	$152,457.43	$127,926.00
Fiscal Year 2023-2024	$116,400.00	$157,009.68	$164,163.78

*Source: eLearning Platform Review Task Force (https://www.framingham.edu/Assets/uploads/student-life/information-technology-services/_documents/ELEARNING%20PLATFORM%20Rationale.pdf)

What's Next?

The purpose of this report was to provide all necessary information for making a decision on transitioning to a new LMS for the following years after the expiration of the contract with Blackboard. Due to the complexity of the process and the completion of the migration to Blackboard Ultra, the decision must be made with careful consideration. In this report, the demonstration of the alternative LMSs, Canvas and D2L, and surveying the inputs from faculty and students were not considered. However, in an effort to investigating the alternative LMSs, the following criteria were used as key considerations:

- Features and Functionalities
- Technological Advancements
- Integration Capabilities
- Training and Transition Support
- Strategic Alignment of LMS to WPU Mission
- Product Pricing Summary

With several options available, the investigator carefully assessed and compared different LMS platforms to ensure they met the specific needs and objectives along with the strategic plans. As a result, this report was able to evaluate various key considerations, ranging from features and functionalities to cost implications and strategic alignment with WPU's mission and strategic plan. By conducting a comprehensive review of these key evaluation items, WPU will make better informed decisions that optimize the digital learning experience for faculty and students.

In conclusion, the choice between Blackboard, Canvas, and D2L requires a careful consideration of the unique features, capabilities, price, and considerations each LMS brings to the table. Blackboard Ultra, with its modern interface, robust AI-driven features, and comprehensive suite of tools, continues to be a stalwart in the industry. Canvas, known for its user-friendly design and commitment to innovation, has rapidly gained popularity and widespread adoption. D2L's Brightspace, with its emphasis on flexibility, personalized learning, and advanced analytics, offers a compelling option for institutions seeking a comprehensive LMS solution.

Based on the comparison, all the LMSs reviewed are equally qualified to be an alternative LMS to WPU community. It is suggested that having a demo of each LMS to faculty and students will provide more accurate information on the LMS for WPU.

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VOID IF EXECUTED AFTER: June 12, 2020
CUSTOMER: William Paterson University of New Jersey

Blackboard

This Blackboard Order Form ("Order Form") by and between **Blackboard Inc.** ("Blackboard") and **William Paterson University of New Jersey** ("Customer") details the terms of Customer's use of the products and services set forth below ("Product and Pricing Summary"). This Order Form, together with the Blackboard Master Terms dated August 18, 2008 and incorporated by this reference, form the entire agreement between the parties in respect of the products and services set forth in the Product and Pricing Summary. Notwithstanding anything to the contrary in any purchase order or other document provided by Customer, any product or service provided by Blackboard to Customer in connection with a purchase order related to this Order Form is conditioned upon Customer's acceptance of this Order Form and the Blackboard Master Agreement. Any additional, conflicting or different terms proffered by Customer in a purchase order or otherwise shall be deemed null and void. Each of the individuals executing this Order Form represent and warrant that he or she is authorized to execute the Agreement on behalf of Customer or Blackboard, as applicable.

In consideration of the promises set forth herein, and other good and valuable consideration, the receipt of which are hereby acknowledged, the parties hereby agree as follows:

A. Software & Services Product and Pricing Summary

Qty	Product Code	Product or Service	Initial Term Period #1 Effective Dates	Initial Term Period #1 (USD)	Initial Term Period #2 01-Jul-2021 - 30-Jun-2022 (USD)	Initial Term Period #3 01-Jul-2022 - 30-Jun-2023 (USD)	Initial Term Period #4 01-Jul-2023 - 30-Jun-2024 (USD)	Initial Term Period #5 01-Jul-2024 - 30-Jun-2025 (USD)
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1	AS-TPD-S	TRAINING PROGRAM DEVELOPMENT - SUBSCRIPTION		Included	Included	Included	Included	Included
1	AS-TRN-OLN-S	ONLINE TRAINING SUBSCRIPTION		Included	Included	Included	Included	Included
1	AS-LRN-SAAS2	BLACKBOARD LEARN SAAS PLUS		Included	Included	Included	Included	Included
1	CL-WC-SAAS	WEB CONFERENCING SAAS DEPLOYMENT		Included	Included	Included	Included	Included
1	AS-HST-MIGR-SAAS	SAAS HOSTING MIGRATION FEE		$10,000.00	NA	NA	NA	NA
1	AS-MIGR-ARCHIVE	LEARN MIGRATION ARCHIVE		$0.00	NA	NA	NA	NA
2	AS-HST-STO1TB-SAAS	SAAS ADDITIONAL STORAGE 1TB		$0.00	$0.00	$0.00	$0.00	$0.00
1	AS-ALY-BBL-P	BLACKBOARD ALLY PKG - LEARN, 8,001 - 15,000 FTE	19-Dec-2020 - 30-Jun-2021	$25,730.62	$26,000.00	$26,000.00	$26,000.00	$26,000.00
1	AS-ALY-BBL	BLACKBOARD ALLY FOR LEARN		Included	Included	Included	Included	Included
			Total	**$206,730.62**	**$197,000.00**	**$197,000.00**	**$197,000.00**	**$197,000.00**

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B. Terms

1. The Initial Term of this Order Form shall be as specified in the Product and Services Pricing Summary above.
2. Unless otherwise specified in the Product or Service Description above, this Order Form shall be renewed automatically for successive periods of one (1) year (each a "Renewal Term") after the expiration of the Initial Term and any subsequent Renewal Term, unless Customer provides Blackboard, or Blackboard provides Customer, with a written notice to the contrary thirty (30) days prior to the end of the Initial Term or Renewal Term, as applicable.
3. Effective Date: July 01, 2020

C. Payment Terms

1. All initial and subsequent payments shall be due Net 30. Unless otherwise stated, all prices are in United States currency.
2. Blackboard shall invoice Customer for the amounts due in respect of the first year of the Initial Term on or about July 01,2020.
3. Sales Tax: If applicable, a copy of your Sales Tax Direct Pay Certificate or your Sales Tax Exemption Certificate must be returned with this Order Form.

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D. Special Provisions

1. Migration to SaaS, including provisioning of environments to support testing, shall begin approximately 120 days prior to the Learn SaaS Effective Date, or at another mutually agreed upon date within the Contract Term, and be completed on or around the Learn SaaS Effective Date. If Customer wishes to continue to use the self-hosted term license past the self-hosted license contracted term, current fees will apply.
2. The terms and conditions at http://agreements.blackboard.com/bbinc/blackboard-data-processing-security-schedule.aspx are incorporated herein.
3. The terms and conditions of the Blackboard Learning Essential Bundle Software License Schedule Effectively dated July 1, 2015 are incorporated herein.
4. The following terms and conditions are incorporated and where they conflict with the terms and conditions incorporated in section 2 above, the terms in this section 3 shall take precedence.
   a. **License to Use SaaS Services or Hosting Services.** With respect to SaaS Services or Hosting Services, for the Term (as defined in Section 10.1), we grant you a non-exclusive, non-transferable, non-sublicenseable license to access and use the SaaS Services (or, as applicable, Hosting Services) made available by Blackboard to you on a remote-access, subscription basis via the Internet solely in support of your operations.
   b. **Test Copies of Software or SaaS Services**. Self-hosted Software and SaaS Services licensees are provided one (1) Test Copy of the Software or SaaS Services. If you purchase the Blackboard Managed Hosting Non-Production Test Environment, we will host the Test Copy of the Software for you. A **"Test Copy"** is a copy of the Software or a sandbox environment for the SaaS Services used solely for non-production testing purposes and is not supported or warranted.
   c. SUPPORT AND SERVICE LEVEL AGREEMENTS
   If you license or are otherwise eligible to receive Support, or are eligible for service level agreements, such Support (or service level, as applicable) will be provided as described in the Blackboard Customer Support Services Guide ("Services Guide") located at https://blackboard.secure.force.com/publickbarticleview?id=kA570000000PB0o for the relevant Products and Services. Our failure to satisfy a service level shall not be a breach of this Agreement and, your sole and exclusive remedy (if any) in such event shall be as expressly set forth in the applicable service level agreement. With respect to SaaS Services, you will receive, or we will make available for you to receive, all applicable updates, application packs, and releases that we make generally available during the Term. We reserve the right to discontinue any Product or Service during the Term for any reason, but in such even we will notify you and, as Customer's sole and exclusive remedy, Blackboard shall provide a pro rata refund for any unused portion of the Products and Services, as applicable.
5. BLACKBOARD ALLY
   a. Grant of License. With respect to the Blackboard Ally service, for the term specified in the applicable Order Form, we grant you a non-exclusive, non-transferable, non-sublicenseable, license to access and use the Blackboard Ally service made available by Blackboard.
   b. No advice. We do not guarantee that the use of the Blackboard Ally service will ensure the accessibility of your web content or that your web content will comply with any specific web accessibility standard or law. Any information or guidance accessed through the Blackboard Ally service, including without limitation the results of any website tests conducted or other guidance with respect to compliance with various accessibility standards, including without limitation the web content accessibility guidelines 2.0 (WCAG 2.1), or laws, rules or regulations, including without limitation those commonly known as the Americans with Disabilities Act of 1990 as amended by the ADA Amendments Act of 2008, applicable sections of the Communications Act of 1934 as amended by the Telecommunications Act of 1996, 251(a), the Rehabilitation Act, the Individuals with Disabilities Education Act, or their international counterparts, any or all as amended from time to time, or related rules or regulations is provided solely as a courtesy and is not legal advice or counsel. Other laws may apply to you or your customers depending on the nature of their goods and services. We expressly disclaim any implied or express warranties and any liability with respect to any information or guidance provided.

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Sales Approved:	Scott Caplan
Initial:	

Customer: William Paterson University of New Jersey	Blackboard Inc.
Signature: Stephen Bolyai	Signature:
Name: Stephen Bolyai	Name: Bill Jones
Title: Sr. VP for Adminstration & Finance	Title: Deputy General Counsel
Date: May 3, 2020	Date: March 25, 2020

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Is a Purchase Order (PO) required for the purchase or payment of the products on this Order Form?

No
Yes - Please complete below and attach or send PO to Operations@blackboard.com

PO Number:	PO Amount:
Attach PO (Optional):	Attach Tax Exemption (Optional):

Invoicing

Send Invoices via email to:

1. Name:	Email:
2. Name:	Email:
3. Name:	Email:

INSTRUCTURE

Services Order Form

Order #: Q-347299-1
Date: 2023-11-14
Offer Valid Through: 2023-12-31

6330 South 3000 East, Suite 700, Salt Lake City, UT 84121, United States

Order Form For William Paterson University of New Jersey

Address: 300 Pompton Rd
City: Wayne
State/Province: New Jersey
Zip/Postal Code: 7470
Country: United States

Order Information
Billing Frequency: Annual Upfront
Payment Terms: Net 30

Billing Contact

Name: _____
Email: _____
Phone: _____

Primary Contact

Name: Jae Kim
Email: kimj@wpunj.edu
Phone: +1 973 720 2937

DRAFT

Billing Frequency Term:
Non-Recurring items will be invoiced upon signing. Recurring items will be invoiced 30 days prior to the annual start date.

Year 1

Description	Start Date	End Date	Metric	Qty	Price	Amount
Canvas LMS Cloud Subscription	2025-01-01	2025-12-31	FTE	7,586	USD 18.79	USD 142,540.94
24x7 Support	2025-01-01	2025-12-31	20% of Subscription (Minimums Apply)	1	USD 28,508.19	USD 28,508.19
Tier 1 Support	2025-01-01	2025-12-31	FTE	7,586	USD 3.50	USD 26,551.00
Scaffold Archiving by K16 Solutions	2025-01-01	2025-12-31	Per Course	1	USD 33,000.00	USD 33,000.00
Recurring Sub-Total						USD 230,600.13
Canvas LMS - Tier 1 Support Setup			One Time Fee	1	USD 500.00	USD 500.00
Non-Recurring Sub-Total						USD 500.00
Year 1 Total						USD 231,100.13

Year 2

Description	Start Date	End Date	Metric	Qty	Price	Amount
Canvas LMS Cloud Subscription	2026-01-01	2026-12-31	FTE	7,586	USD 19.73	USD 149,671.78
24x7 Support	2026-01-01	2026-12-31	20% of Subscription (Minimums Apply)	1	USD 29,934.36	USD 29,934.36
Tier 1 Support	2026-01-01	2026-12-31	FTE	7,586	USD 3.50	USD 26,551.00
Scaffold Archiving by K16 Solutions	2026-01-01	2026-12-31	Per Course	1	USD 33,000.00	USD 33,000.00
Recurring Sub-Total						USD 239,157.14
Year 2 Total						USD 239,157.14

Year 3

Description	Start Date	End Date	Metric	Qty	Price	Amount
Canvas LMS Cloud Subscription	2027-01-01	2027-12-31	FTE	7,586	USD 20.71	USD 157,106.06
24x7 Support	2027-01-01	2027-12-31	20% of Subscription (Minimums Apply)	1	USD 31,421.21	USD 31,421.21
Tier 1 Support	2027-01-01	2027-12-31	FTE	7,586	USD 3.50	USD 26,551.00
Scaffold Archiving by K16 Solutions	2027-01-01	2027-12-31	Per Course	1	USD 33,000.00	USD 33,000.00
Recurring Sub-Total						USD 248,078.27
Year 3 Total						USD 248,078.27
					Grand Total:	USD 718,335.54

Deliverable	Description	Expiration	Qty
Canvas LMS Cloud Subscription	Canvas LMS Cloud Subscription: Per FTE	N/A	7,586
24x7 Support	24x7 support per year (20% of subscription - minimums apply)	N/A	1
Tier 1 Support	Tier 1 Support per user (minimums apply)	N/A	7,586
Scaffold Archiving by K16 Solutions	Scaffold Archiving allows institutions to archive their course content & student data when migrating to a new LMS platform. Content resides on the Scaffold platform and remains integrated with your new LMS, allowing it to be accessed at any time.		1
Canvas LMS - Tier 1 Support Setup	One-time fee for Tier 1 Support	N/A	1

The items above must be completed during the time period beginning on the later of the Effective Date or the initial Start Date specified in this Order Form and ending pursuant to the time frame set forth in the Expiration column above.

Metrics and Descriptions:

FTE: FTE Metric is measured by the unduplicated 12-month full-time equivalent students in accordance with the definition published by the Integrated Postsecondary Education Data System.

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The FTE fees set forth above are based on typical user usage patterns ("Typical Use") for access to the Service and do not account for excess usage of the Service. To the extent the Users' usage of the SaaS Service, in the aggregate, exceeds the Typical Usage at any given time, Instructure reserves the right, it its sole discretion, to increase the fees by an amount proportional to such excess usage. In the event Instructure increases the fees pursuant to this paragraph, Instructure shall send an invoice to Customer for the applicable increase along with documentation evidencing the additional usage of the Service giving rise to such fee increase. Any invoice sent pursuant to the foregoing shall be due and payable within 30 days' of receipt.

Product	Description
Canvas LMS Cloud Subscription	Storage included in the annual subscription fee is (i) Unlimited files and database storage, and (ii) 500 MB per (FTE/User/Enrollment/ Seat) multimedia storage. Additional multimedia storage can be purchased for USD $1.00 per 1GB per year.
Scaffold Archiving by K16 Solutions	Scaffold Archiving by K16 Solutions: To the extent that Customer is purchasing services or products provided by K16 Solutions in this order form, Customer agrees to be legally bound by K16 Solutions SaaS Agreement, a copy of which is available at http://k16solutions.com/k16estc Customer shall enter into agreement(s) directly with K16 in relation to privacy, security and processing of data pursuant to such services. Instructure expressly disclaims all liability in relation to the privacy, security and processing of data pursuant to such services.

Duration: The Services provided under this Order Form shall begin on the first year Start Date set forth above and continue through the last year End Date set forth above, provided, however, that Instructure may provide certain implementation related Services prior to the first year Start Date at its sole discretion.

Miscellaneous: Instructure's support terms are available as follows:
Canvas & Catalog: https://www.instructure.com/canvas/support-terms
Portfolium: https://portfolium.com/support-terms
MasteryConnect: https://www.masteryconnect.com/support/

As part of our commitment to provide the most innovative and trusted products in the industry, at times we must increase our renewal rates to cover additional expenses associated with advancing our products. If you have concerns with any increases, please reach out to your account representative.

Terms and Conditions
This Order Form shall be governed by the Master Terms and Conditions which can be found here:
https://www.instructure.com/policies/master-terms-and-conditions

In the event of any conflict between this Master Terms and Conditions and any addendum thereto and this Order Form, the provisions of this Order Form shall control.

The parties agreement with regards to Instructure's processing of personal data or personally identifiable information can be found at: https://www.instructure.com/policies/data-processing

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PURCHASE ORDER INFORMATION	TAX INFORMATION
Is a Purchase Order required for the purchase or payment of the products on this order form? Please Enter (Yes or No): _____ If yes, please enter PO Number: _____	Check here if your company is exempt from US state sales tax : _____ *Please email all US state sales tax exemption certifications to ar@instructure.com*

Customer purchasing documentation, such as Purchase Orders, shall only be used as proof of acceptance of the Order Form referenced therein, and the associated Master Terms and Conditions. Any terms and conditions included in any such Customer purchasing documentation are hereby expressly disclaimed by Instructure, shall be void and of no effect, and shall in all cases be superseded by the applicable Master Terms and Conditions.

By executing this Order Form, each party agrees to be legally bound by this Order Form.

William Paterson University of New Jersey

Signature: _____

Name: _____

Title: _____

Date: _____

Instructure, Inc.

Signature: _____

Name: _____

Title: _____

Date: _____

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