Using Online Technologies in Blended and On-Campus Courses

Presented by:

MET Educational Technologies and Innovation
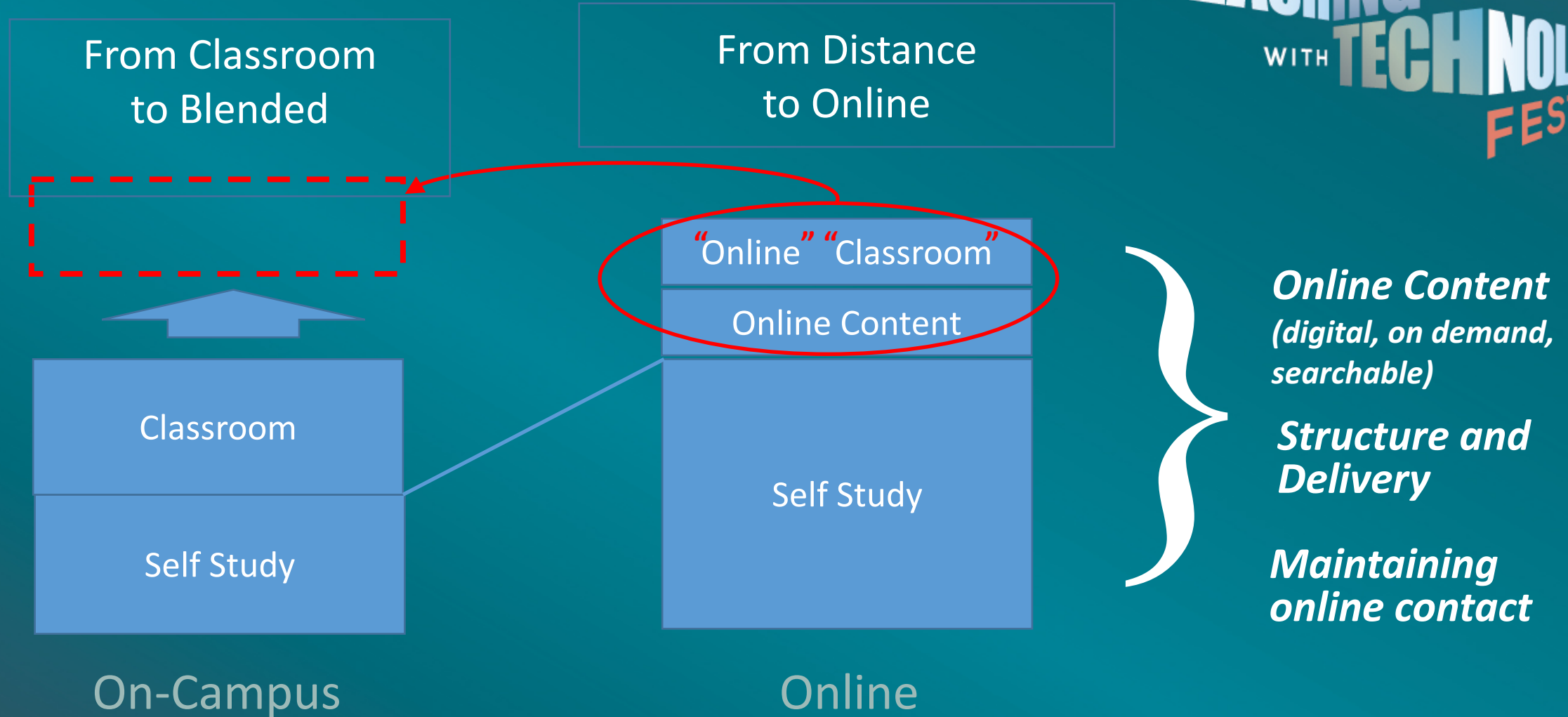
BOSTON UNIVERSITY

Teaching with Technology Festival
October 3, 2017

Introduction

- Metropolitan College, Educational Technology and Innovation (ETI): 10 years of Blended Learning

- Technologies as Enablers

- Blended Learning: Rich Content, Multiple Modalities

The Evolution of Learning

From Classroom
to Blended

From Distance
to Online

"Online" "Classroom"

Online Content

Classroom

Self Study

Self Study

Online Content
(digital, on demand,
searchable)

**Structure and
Delivery**

**Maintaining
online contact**

On-Campus

Online

Online Technologies: Holistic View

- Creating *Online* Content

- Managing and Delivering *Online* Content

- Maintaining Contact *Online*

Creating Content
Section Overview

Production Model

Focus:
Leverage familiar supported platforms to produce rich protected, distributable online content.

Creating Content
What do we mean by 'Rich' Content

Distributed, Multisensory and Hands On Learning

- Increase the reach of content
- Increase the number of sensory channels
- Increase interaction and hands on learning

TEACHING WITH TECHNOLOGY FESTIVAL

Content Item	Elements	Delivery Format	Added Elements	New Delivery Format
Syllabus	Text Images	MS Word	Edit protection Universal viewing	PDF
Lecture Slides/ Notes	Text Images	MS PowerPoint MS Word	Edit protection Universal viewing	PDF
Lecture Slides/ Notes	Text Images	MS PowerPoint MS Word	Audio Video Screen Capture	MyMedia
Hands On Exercise	Text Images Lab environment	MS Excel	Audio Video	MyMedia
Hands On Exercise	Text Images Lab Environment	MS Excel	Web Delivered Learning Object	Onedrive HTML
Simulation/Labs/ Visualization	Text	Various	Web Delivered Learning Object	Various

What are you recording?

Presentation Format	Actors	Environment	Examples	Use	Length	Longevity	Flow
Lecture/ Conference [Live Audience]	Various	Classroom or Online	Class Session Recording Remote Guest Lecture	Lecture Review or Absence ~~Flip Classroom~~	Class session	Semester	Responsive
Dedicated Recording Session [Audience Free]	Instructor(s)	Studio	Tutorial Software Walkthrough	Provide Additional Content Flip Classroom	Dictated by subject Preferably short	Course Update Cycle	Scripted
Dedicated Response Session [Audience Free]	Instructor(s) or Student(s)	Flexible	Homework Feedback Lecture Clarification Student Presentation	Provide specific feedback	Dictated by subject Preferably short	Semester	Casual

Creating Content
Preparing for Recording

What are you recording?

Forms of Content

Voice
- Lecture
- Conversation

Text
- Slides
- Closed Captioning

Video Presence

Handwriting

Computer Activity

Demonstration/ Gesture

Sources for Capture

Camera
- Near end
- Far End
- Doc Cam

Audio
- Microphone
  - Personal
  - Room
- Computer
- Far end

Screen

File

Considerations

- Light
- Noise
- Camera placement
- Extent of sharing
- Editing
- Formality
- Longevity

Creating Content
Captioning Recorded Content

- 70-80% Automatic in My Media
- Media Life Span
- Multisensory Learning

Creating Content
Screen / Tutorial Recording [MyMedia]

Live Demo

Technology and support services shown are currently available to all BU faculty.

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TEACHING with TECHNOLOGY FESTIVAL

Lesson:

Exercise:
Consider an investment that pays $200 one year from now, with cash flows increasing by $200 per year through year 4.

If the issuer offers this investment for $1,500, should you purchase it?

...nterest rate decreases to 9% and the ...ment is offered for $1,400, should you ...se it?

Module 9
Present Value of Uneven Cash Flows

Interest Rate	12%

Time	Payment	PV of Each Payment
1	$200.00	$178.57
2	$400.00	$318.88
	$600.00	$427.07
	$800.00	$508.41
Total PV	$	1,432.93

Creating Content
Combining Content and Workspace

MET EDTECH TABLE 8

TEACHING with TECHNOLOGY FESTIVAL

Present Value of Uneven Cash Flows

Lesson:

Money Today ≠ Money Tomorrow (or some point in the future)

In most cases in finance we're not faced with constant or regularly increasing or decreasing payments.

Any stream of payments, such as the company's revenues or net income, will likely be variable or uneven.

We need to develop techniques for calculating the present value or future value of such an uneven payment flow.

Workspace Task:

Use the embedded worksheet to the right to answer the following questions.

Consider an investment that pays $200 one year from now, with cash flows increasing by $200 per year through year 4.

If the issuer offers this investment for $1,500, should you purchase it?

If the interest rate decreases to 9% and the investment is offered for $1,400, should you purchase it?

How is the present value affected if the order of payments is reversed?

Embedded Workspace:

Use this active window below to investigate the effect of changing interest rate and payments. Click on a cell to enter a new value. Refresh your browser to reset the workspace to it's original configuration.

Module 9
Present Value of Uneven Cash Flows

Interest Rate 12%

Time	Payment	PV of Each Payment
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Total PV	$	1,432.93

(Teaching) Instructions

Hands On (Learning)

Embedded Excel Workspace

Live Demo

Technology and support services shown are currently available to all BU faculty.

Creating Content
Live Interactive Exercises
Custom Content / Interactive Learning Objects

These examples have their roots in online technologies and can enhance your teaching by bringing engagement and interaction to the course delivery.

- Bond value vs Discount Rates
- Dynamic Graphs
- Growth in dividends
- Treasury Yield Curve
- Cryptographic Workbench

Creating Content
Quizzes, Tests and Exams

How is quiz content captured in F-F?
- Word documents
- Paper exams / Blue books.

Organizing Content
Role of Learning Management System (LMS)
Benefits of Online Content Manangement

Centralized Content Access
- Transition storage to LMS
- Course vs Content

Centralized Management
- Automatic Student Enrollments
- Built in Gradebook
- Pacing Control

Focus:
Make content easily and centrally available to students and easily and centrally maintainable by faculty from semester to semester.

Organizing Content
Anatomy of the LMS

Your New Course Shell

Your Course Navigation
LINKS TO
Tools and Files

Organizing Content
Structure of Content in Blackboard

Course Area
- Links to Content Collection and Tools

Content Collection
- Folders and files
- Keep it clean! (We'll show you how)

Tools
- Tests/Quizzes/Pools
- MyMedia
- Discussions

Organizing Content
Blackboard Site Setup

Live Demo

Technology and support services shown are currently available to all BU faculty.

Organizing Content
Deploying Recorded Media
My Media Integration with Blackboard

- Centralization of course material
- Easy management of access based on course enrollment

Live Demo

Technology and support services shown are currently
available to all BU faculty.

Organizing Content
Advantages of LMS Based Assessment
Blackboard Assignments and Assessments

- Centralization of course material and submissions
- Out of the box
- Grade Book Integration
- Allows for randomization (Tests/Pools)

Organizing Content
Assignments and Assessments

Live Demo

Technology and support services shown are currently available to all BU faculty.

Maintaining Dialog
for On Campus and Blended Courses

Section Overview

- Discussion Board
- Web Conferencing
- Peer Assessment

Focus:
Enabling dialog and maintaining student interaction outside the classroom

Maintaining Dialog
Integrated Discussions Boards

Model Topics
- Student Introductions
- "Ask the Professor", "From the Professor"
- Lecture Linked Discussions (weekly or by topic)
- In the news

Advantages / Approaches
- Questions answered once and students can benefit from others questions.
- Peer to peer education (extra points for students helping students)
- Can be Graded

Maintaining Dialog
Web Conferencing

Use Cases

- Classroom Lecture Webcasting
- Online Office hours
- Online Group project collaboration
- Online Guest lectures
- Weather cancellations/Make up classes

Maintaining Dialog
Web Conferencing

Zoom Demo

Live Demo

Maintaining Dialog
for On Campus and Blended Courses

Blackboard Peer Assessment

- Bb tool Pointer
- Alternative to discussion
- Examples

Maintaining Dialog
Disability Services

Office of Disability Services
Boston University
19 Deerfield Street (2nd Floor)
Boston, Massachusetts 02215
Phone: 617-353-3658 (V/TTY)
Fax: 617-353-9646
access@bu.edu
www.bu.edu/disability

Summary
Saving Time with Technology

- Creating *Online* Content

- Managing and Delivering *Online* Content

- Maintaining Contact *Online*

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