LESSONS LEARNED FROM MOOCS

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OBJECTIVES

• Categorize at least three MOOC practices as either existing or unique.
• Create list of effective practices missing from MOOCs.
• Describe one MOOC practice you might adopt in your F2F/online course and justify why you would adopt it.
Through our four campuses, the University of Colorado plays a profound role in the lives of individuals, businesses and communities throughout Colorado, across the country and around the world. Nearly half a million alumni have led the way in business, science, the arts, health care and their communities, and they’re joined by 15,000 more each year. In Aurora, Boulder, Colorado Springs and Denver, all four of our campuses are all for Colorado.
Office of Digital Education and Engagement
Visibility vs Time:

- Peak of Inflated Expectations
- Plateau of Productivity
- Slope of Enlightenment
- Trough of Disillusionment
- Technology Trigger

2012: Peak of Inflated Expectations

2013: Trough of Disillusionment

NOW: Plateau of Productivity
CU is changing the world with MOOCs.

A system-wide collaboration has 29 active, quality courses on the Coursera platform. These courses have wide reach and meaningful impact as they promote CU opportunities around the world.

**System-wide collaboration**
- 28 faculty members
- 16 departments and programs
- 32 courses (+4 on old/local platforms)

**Quality courses**
- Overall, CU's MOOCs are rated above 4.5 out of 5 by 3,302 learners
- Course material: learners' ratings of course material quality as excellent or good - 92%

**Wide reach**
- 1,716,342 enrollments cumulative, across 194 countries
- 33% from the USA
- 24% from Europe
- 28% from Asia

A new comprehensive cybersecurity certification from the recently announced National Cybersecurity Intelligence Center at UCCS is set to launch in early 2017!
WHY MOOCS?

- Reach
- Reputation
- Research (dissemination, crowd-sourcing)
- Recruitment
- Passion
1. What to know when designing your course

A successful MOOC has four critical components. We've created guidelines for each of these and included resources that will help walk you through the course creation process. If you'd like to see the full guidelines, check out the Pedagogy Checklist.

- Clear learning goals

  Know your learners and find out how to set meaningful goals for them

  **Tip:** Use strong learner-centered language

- Create engaging instructional material

  Explore what researches and Coursera data say about engaging video lectures

  **Tip:** Begin your course with a warm, welcome video

- Utilize practice exercises

  Learn about the different practice exercises you can use and the importance of good feedback here: quizzes, peer review assignments, and programming assignments

  **Tip:** Include 1 ungraded activity per module that provides concrete, specific feedback

- Build rigorous assessments

  Find how to build assessments that demonstrate mastery here: quizzes, peer review assignments, and programming assignments.

  **Tip:** Explore using peer reviews and programming assignments for substantive tasks
DEB’S VIEW

- Know your learner
- Design for engagement
- Provide context, connective tissue, community
- Build in application, student products
KNOW YOUR LEARNER

- Their goals
- Their "volunteer" status
- Their need for flexibility and mobility

- Learner profiles
- Learning objectives
- Short videos
- Mobile app
LEARNER STORY
A father of four and full-time professional becomes an MBA student
February 16, 2017

David had always dreamed of continuing his education, but with four children and a full-time job, he didn’t think he would ever have a chance to do so. Then he found Coursera - and eventually built the skills and confidence he needed to apply to an international MBA program. Here’s his story: I’m a father...
LEARNING OBJECTIVES

Evaluate business needs, design a data warehouse, and integrate and visualize data using dashboards and visual analytics.

This Specialization covers data architecture skills that are increasingly critical across a broad range of technology fields. You'll learn the basics of structured data modeling, gain practical SQL coding experience, and develop an in-depth understanding of data warehouse design and data manipulation. You'll have the opportunity to work with large data sets in a data warehouse environment to create dashboards and Visual Analytics. You will use MicroStrategy, a leading BI tool, OLAP (online analytical processing) and Visual Insights capabilities to create dashboards and Visual Analytics. In the final Capstone Project, you'll apply your skills to build a small, basic data warehouse, populate it with data, and create dashboards and other visualizations to analyze and communicate the data to a broad audience.

Created by: University of Colorado

Industry Partners:
SHORT VIDEOS

Skip is something of an establishment in humanitarian relief.

02 - Skip Burkle - Changing Trends
The course ended on January 10

That's ok! You can enroll in the next session. Your progress will be saved and you can pick up right where you left off.

Switch sessions
DEB’S VIEW

• Know your learner
• Design for engagement
• Provide context, connective tissue, community
• Build in application, student products
DESIGN FOR ENGAGEMENT

- Mastery learning platform
- On demand
- Welcome video
- IVQ
- Formative assessment
- Explanatory feedback
- Quick feedback
WELCOME VIDEO

WELCOME VIDEO (INSTRUCTOR)

https://www.coursera.org/learn/medieval-europe/lecture/FLhQA/meet-dr-ana-belen-sanchez-prieto
IVQ/FORMATIVE ASSESSMENTS

https://www.coursera.org/learn/ghresponder/lecture/Hxctq/02-skip-burkle-changing-trends
FEEDBACK

Quiz
Quiz 1 - Getting Started

Question 1
To become a director of sustainability one must

VARIATION 1

- Have a technical background, e.g., engineering or systems design.
  This can be helpful for some sustainability positions but you need people skills too.

- Major in sustainability in college
  This might be a good path, but this is an unusual major for many colleges to offer. You can move into sustainability from many different courses of study.

- Start at a nonprofit and move to a position in the private sector.
  There are probably people who have done this but it is not too common.

- None of the above. Career paths are unique. It's having a passion for sustainability that is critical.
  Yes, passion, an interest or willingness to learn and to work hard on problems you care about is probably most important.
### Practice Peer-graded Assignment: Peer Review: Introductory Speech

**Reviews**  3 complete

**Well done!**
You've sent 3 classmates valuable feedback that will help them improve. You can review another submission below or you can continue the course.

It looks like this is your first peer-graded assignment. Learn more

<table>
<thead>
<tr>
<th>Instructions</th>
<th>My submission</th>
<th>Review classmates</th>
<th>Discussions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Needs review</strong></td>
<td><strong>My presentation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Gabriel Pardo R...</strong></td>
<td>Submitted 5 days ago</td>
<td></td>
</tr>
</tbody>
</table>

Filter: Projects I have not reviewed
d

<table>
<thead>
<tr>
<th>19 days ago</th>
<th>4 months ago</th>
<th>4 months ago</th>
</tr>
</thead>
<tbody>
<tr>
<td>My introduction</td>
<td>Assignment 01</td>
<td>My intro speech</td>
</tr>
<tr>
<td>Maaz Syed</td>
<td>Manasvi Tyagi</td>
<td>Panos Papadopoulos</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 months ago</td>
<td>3 months ago</td>
<td>3 months ago</td>
</tr>
<tr>
<td>Simeon's Introductory Speech</td>
<td>Initial Speaking by Guilherme Valadares (did it in one...</td>
<td>My presentation - Sara Irazu :) Hope you like it</td>
</tr>
</tbody>
</table>

**QUICK FEEDBACK**

The page contains a feedback form for a peer-graded assignment. It indicates that the user has completed 3 peer reviews and received valuable feedback from their classmates. The form includes options to review other submissions and a notification about the user's first peer-graded assignment. The table lists various presentations and their reviewers.
DEB’S VIEW

• Know your learner
• Design for engagement
• Provide context, connective tissue, community
• Build in application, student products
PROVIDE CONTEXT, CONNECTIVITY, COMMUNITY

- Discoverability
- Holy cannoli, the modularization
- Titles
- Descriptions
- How will the learner be different?
- Encouraging language
- Connective tissue language
- Discussion forum
# Descriptive Titles

Welcome

<table>
<thead>
<tr>
<th>Lesson 1 - Welcome to Become a Sustainable Business Change Agent</th>
<th>4 min</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Discussion Prompt:</strong> Introductions and Goals for taking this MOOC</td>
<td>5 min</td>
</tr>
<tr>
<td>Lesson 2 - Stories of Change</td>
<td>12 min</td>
</tr>
<tr>
<td>Lesson 3 - What to look for in a first project</td>
<td>11 min</td>
</tr>
<tr>
<td>Lesson 4 - Starting as a Change Agent: Jarrett Smith Interview</td>
<td>14 min</td>
</tr>
<tr>
<td>Lesson 5 - What does a good change proposal look like?</td>
<td>7 min</td>
</tr>
<tr>
<td><strong>Discussion Prompt:</strong> The Power of One</td>
<td>5 min</td>
</tr>
</tbody>
</table>
HOW WILL THE LEARNER BE DIFFERENT?

You’ll be able to create a table using either Oracle or MySQL.
Most learners find this week hard. But stick with it! Next week will be easier!
CONNECTIVE LANGUAGE
How you define and measure "tolerance"?
DEB’S VIEW

• Know your learner
• Design for engagement
• Provide context, connective tissue, community
• Build in application, student products
APPLICATION

• Back to the goals

• Project
  • Certificate
PORTFOLIO
University of Colorado Boulder

COURSE CERTIFICATE

Suzanne Louise Perazzini

has successfully completed

Gut Check: Exploring Your Microbiome

an online non-credit course authorized by University of Colorado Boulder and University of Colorado System and offered through Coursera

Verify at coursera.org/verify/5GCXWZSEXD12

Coursera has confirmed the identity of this individual and their participation in the course.
PORTABILITY
HOKEY POKEY

• Sneaky T&L
• Access & Cost
• Alt Cred
• ???AI
• ???Integrity
• ???Humanities
• ???Education
LESSONS LEARNED FROM MOOCS

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