Thinking Beyond the Credit Hour

SJSU Case Study: Implications of MOOCs

WICHE Western Academic Leadership Conference
San Diego, April 25, 2013

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MOOCs:

**edX:** Harvard-MIT (Anant Agrawal), $60M, Dec 2011
+18 partners, over +24 courses, +1 M students
https://www.edx.org/

**Udacity:** Ex-Stanford (Sebastian Thrun), Feb 2012
https://www.udacity.com/
$15.3 M, +20 courses
400,000 students

**Coursera:** Stanford (Daphne Koller, Andrew Ng)
April 2012, $16 M VC, 33 universities, +200 courses, +2.5 M student from 196 countries, Feb 2013
https://www.coursera.org/
San José State University 2012

- Oldest public university in West - 156 yrs
- 30,448 students (Fall 2012: African Amer=3%, Asian Amer=33%, Hispanic=21%, Native Amer=0.1%, White=26%, International=7%)
- 154 degrees (83=undergrad, 70=MA, 1=doctorate)
- Ranks 10th in West for Master’s, USN&WR
- Ranks 3rd top College of Engineering, USN&WR
(1) SJSU’s edX Flipped/Blended Model

Fall 2012: Pilot flipped/blended 1 section of SJSU (EE98), using MIT edX’s first MOOC course, edX 6.002x.

- **Outside class: edX online content**
  - Watch edX MIT 6.002x video lectures
  - Do online interactive exercises (quizzes, labs, text)

- **In class: small group work + group/individual quizzes**
  - Instructor answers questions in the first 15 min; group work and group/individual tests for remaining 60 min.

From left to right:
1. Khosrow “George” Ghadiri
2. Ping Hsu
3. Anant Agarwal
4. Behnam Behziz (student)
5. David Parent
FINAL RESULTS

Common Exam for 3 sections—Section 2 (in red) was the edX pilot
Average: 50.4%, SD: 27.1%
41% = retake ➔ 59% passed

Fall 2012 (edX pilot)
Average: 60.0%, SD: 15%
10% = retake ➔ 90% passed

NEW:
- SJSU-edX Center for Excellence in Adaptive and Online Learning
- 12 other CSUs this July
- Expand other edX courses
- Publish data; Harvard
(2) SJSU Plus with Udacity Firsts:

- **College credit MOOC pilot**
  - Remedial Math
  - College Algebra
  - Intro Statistics
  - Summer 2013: + Intro Psych; +Intro Comp Sci

- **Assess** student/faculty outcomes (NSF funding); n=100= 50 SJSU +50 non-SJSU

- **Underserved** student focus

- **Human contact** enhancements

- **Affordable** cost ($150/course)

**Abundant Media Attention:**

*NYT, Chronicle, WSJ, CNN Films, etc*
Learning Assessment Considerations

1. **Defining the credit hour?** Utilize *same* Student Learning Outcomes (SLOs) as faculty design, create, teach, evaluate.

2. **Integrate apriori assessment/evaluation**—both internal and external (i.e., funding).

3. Include future LMS intensive student learning *analytics* and *dashboards*.

4. Collect *quantitative and qualitative* data (SLOs, satisfaction, experiences) from *students and faculty*. 
Faculty Considerations

1. Faculty good will & interest in innovation!!
2. Robust *training and compensation* of faculty (i.e., stipends, professional development funds, assigned time for creating and teaching MOOCs).
4. Careful identification of *courses* and/or degrees or certificates to move to MOOC.
5. Process for equitable identification and selection of MOOC *faculty*. 
Administrative Considerations

1. **Central goal** of MOOC—student learning.
2. **Continuum** → F2F, blended, online, MOOC.
3. **System stakeholders** (i.e., unions, faculty senate, trustees, elected officials).
4. **Alignment** of institution’s resources/leaders.
5. **Business plan and sustainability**.
6. **Legal** issues (Accessibility/508, FERPA, IP)
7. Re-focus on the **role of faculty** in teaching.
8. **Marketing, communic.** & media relations

edX conf:
http://www.sjsu.edu/atn/services/webcasting/events/presscon-101812.html
http://www.youtube.com/watch?v=G1DsVgqirwY&feature=youtu.be

Thank You!

Re-imagining the professoriate?

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