

# Online Learning at UofT: A Changing Landscape



Laurie Harrison, Mike Morrow & Will Heikoop

TKF

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# Outline for Session

- Provincial landscape
- Online courses
- Hybrid and active learning
- MOOCs revisited
- Discussion



# Ontario Landscape

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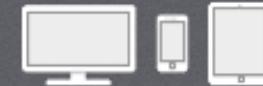
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## Ontario to launch \$42-million central hub for online postsecondary classes

JAMES BRADSHAW

The Globe and Mail

Published Monday, Jan. 13 2014, 12:41 PM EST

Last updated Monday, Jan. 13 2014, 4:13 PM EST

16 comments



430



223



183



24



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10



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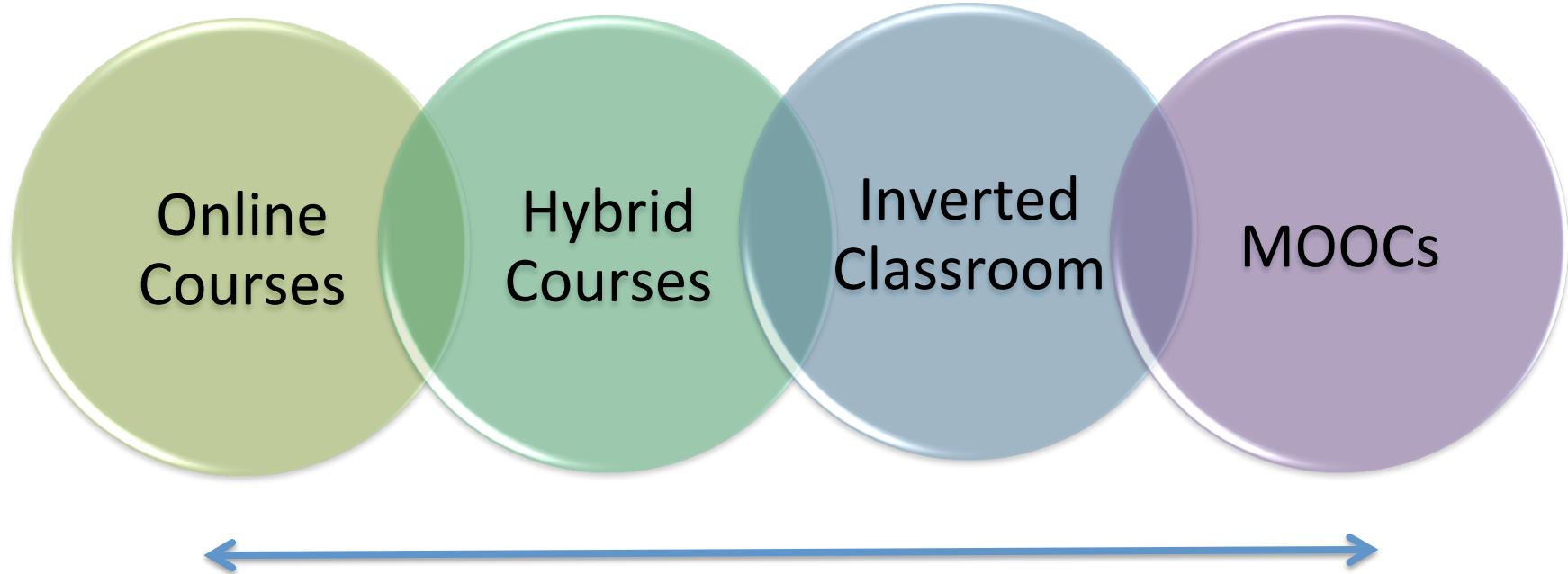


Ontario's government will spend \$42-million establishing a centre that aims to drive new online learning opportunities for university and college students across the province.

# Current MTCU Funding

- Shared Online Course Development first round targets large audience, foundational undergraduate courses (75K each)
- Inclusion in Ontario Higher Ed course portal
- Logistics of credit transfer in discussion
- Continued funding opportunities over 3 years anticipated
- Seven UofT courses have been funded

# UofT's Strategy predates MTCU Announcement...



# New SGS Guidelines



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## Guidelines for eLearning in Graduate Academic Programs

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### + **Executive Summary**

### + **1. Terminology**

### + **2. Preliminary Considerations**

### + **3. Quality Considerations**

### + **4. Principles, Process, & Practice Considerations**

### + **5. Technology Infrastructure & Support Considerations**

# 22 Online Undergrad Courses

- Online Undergraduate Courses

Online Undergraduate Course Initiative (OUCI)  
2014

**Objective:**

To develop online courses that:

- Increase access to undergraduate courses for students in first entry programs at the University of Toronto
- Increase the number of students from other universities enrolling in University of Toronto courses for credit transfer
- Allow access to University of Toronto courses by international students who may wish to consider full time enrolment at University of Toronto

# Faculty Community

- Course Design Institute
- Community of Practice
- Scholarship of Teaching and Learning
- Team-based design
- Library Liaisons



# UofT eLearning Report 2013

## Measuring Our Performance

### Accountability Reports

Every year, the University of Toronto makes a large amount of updated data available about its performance. Below, please find a series of reports that you can use to acquaint yourself with U of T, to measure our progress towards key goals, and to compare this University with others.

Number of Courses	Level	Type	Number of Students Registered
47	Graduate	Asynchronous courses	1,482
15	Graduate	Synchronous courses	235
22	Undergraduate	Asynchronous courses	3,582
2	Undergraduate	Synchronous courses	189
		<b>Total</b>	<b>5,488</b>



# ALOR

## Active Learning: Online Redesign

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### Home

#### Active Learning: Online Redesign

The Active Learning: Online Redesign (ALOR) project is an initiative which spans five divisions as well as the [Centre for Teaching Support and Innovation](#) (CTSI) and the [Online Learning Strategies](#) (OLS) portfolio. This interdisciplinary undertaking will improve the quality of learning by breaking down large classes into smaller learning experiences, while maximizing efficiencies through the use of web-based tools. A more detailed description can be found on the [Project Overview page](#) while the specific divisional activities can be found on the [Target Activities page](#).

# Divisional Partners



- Centre for Teaching Support and Innovation
- Online Learning Strategies
- UTM – Language Studies – Rosa Hong
- UTSC – Psychology – Steve Joordens
- FASE – Materials Science – Scott Ramsay
- FAS – Human Biology – Franco Taverna
- LBFN – Nursing – Margaret Blastorah

# Program Development



- Lawrence Bloomberg Faculty of Nursing
- Master of Nursing
  - Health Systems Leadership and Administration Program
- Prof. Margaret Blastorah
  - Develop pilot hybrid/online component strategies for the MN/MHSc program

# Strategic Outcomes?



- New pedagogies/strategies leveraging technology for:
  - Active Learning
  - Flexible Models
- Examples – Innovative media resources, activities and assessments ...

# MOOC Strategy Update

## Institutional Aims

- **Contribute** to education community
- **Explore and evaluate** new pedagogies
- **Leverage content** through reuse in other contexts
- **Showcase** our capacity: teaching and research





9 Distinct Courses  
2 Repeat Sessions

### Faculty of Arts and Science

Neural Networks for Machine Learning

Statistics: Making Sense of Data

Learning to Program I & II

Introduction to Psychology

Bioinfomethods I & II



### Ontario Institute for Studies in Education

Aboriginal Worldviews and Education

### Faculty of Social Work

The Social Context of Mental Health and Illness



3 Distinct Courses  
1 Upcoming Session

**Rotman School of Management**  
BE101x – Behavioural Economics in Action

**Faculty of Applied Science and Engineering**  
OEE101x – Our Energetic Earth

**Faculty of Information**  
LA101x – Library Advocacy Unshushed

Upcoming:  
**Dalla Lana School of Public Health**  
Death101x – Measuring Global Causes of Death

# By the Numbers

- Nearly 800 000 users have registered (live and archived courses)
- Above average 11% completion across all courses
- Visit [open.utoronto.ca](http://open.utoronto.ca) for more data and reports



\*participants from  
Intro to  
Psychology MOOC

# From Instinct to Evidence: Research on Inverted Teaching

Jennifer Campbell and Paul Gries are well known for their highly successful Massive Open Online Courses (MOOCs) (see sidebar on this page). The opportunity to teach introductory programming to the world was extraordinary, but the senior lecturers were motivated even more by the idea of using materials developed for their MOOCs to enhance our introductory course here at U of T. Gries and Campbell completely "inverted" the course: students prepared for class by watching videos and doing online exercises, and then applied what they'd learned, solving problems in class. "With programming, you have to learn by doing," Campbell notes. "We've always had labs, exercises and assignments for this, but inverted lectures take it a level further: students practise programming right in class, with their instructor and TAs on hand to help."

The professor benefits, too. "I knew immediately what concepts people weren't understanding – not in office hours later that week, or when marking the midterm," commented Campbell. In one early lecture, students drew diagrams to represent what happens as a variable  $x$  is assigned 15 and then 27. "Many drew two different variables called  $x$ ! This was a to-



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## MOOC Symposium Registration

**Open UToronto MOOC Research Symposium Monday, April 28**

Blackburn Room, 4th Floor, Robarts Library 11:30 am - 4:30 pm

### Speakers and Topics:

**Beyond and Between "Traditional" MOOCs: Agile and Just-in-Time Learning**  
11:45 - 12:30

Jennifer Campbell (Dept. of Computer Science) and Alison Gibbs (Dept. of Statistics)

This project compares the use of MOOCs as active, instructor-led, open-facilitated courses with those using no combined, self-directed learning resources. In order to

# Open Course Development

## Open Course Initiative Fund (OCIF) 2014

### **Objective:**

To develop a new, massive open online courses that:

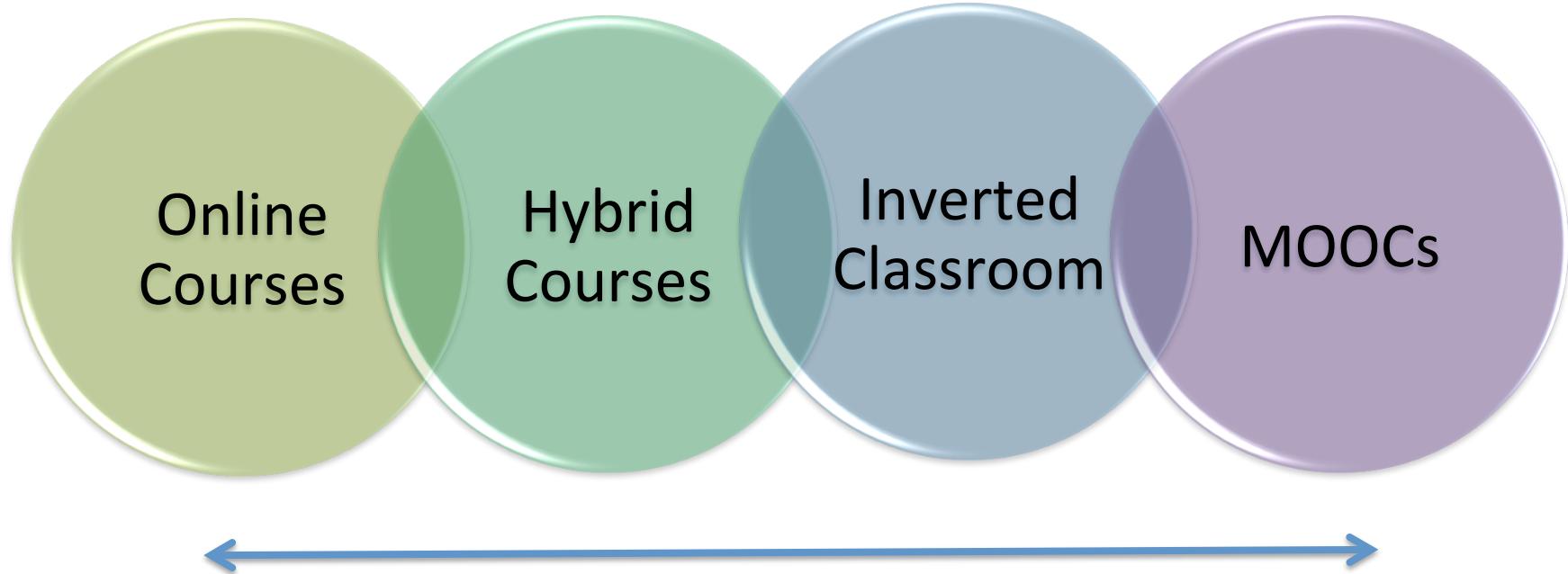
- Contribute to the education community and the broader public through sharing of institutional expertise and open curriculum content
- Explore and evaluate a range of pedagogical approaches and open course platforms
- Leverage use of open educational resources developed through this funding program through integration into University of Toronto degree program courses
- Enhance the University of Toronto's reputation as a leading institution for teaching, learning and research
- Feature the University of Toronto's contribution to global innovation

### **Proposals**

- Proposals will be considered for the 2014 – 2015 academic year

Info on [open.utoronto.ca](http://open.utoronto.ca)

# Flexible Models to meet a range of needs and goals



# Key Faculty Development Resources

- OUCI Funding Information  
<http://onlinelearning.utoronto.ca>
- Online Instructor Community of Practice  
[ONLINELEARNING-L@listserv.utoronto.ca](mailto:ONLINELEARNING-L@listserv.utoronto.ca)
- Instructional Technology Initiatives Fund  
<http://itif.utoronto.ca>
- ALOR  
<http://alor.onlinelearning.utoronto.ca>
- CTSI Online Learning Resources  
<http://uoft.me/onlinelearning>

