

Online Initiatives at Duke

Arts & Sciences Council
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2012-13 online educational initiatives

LAST YEAR

Participation in Duke MOOCs 2012-13



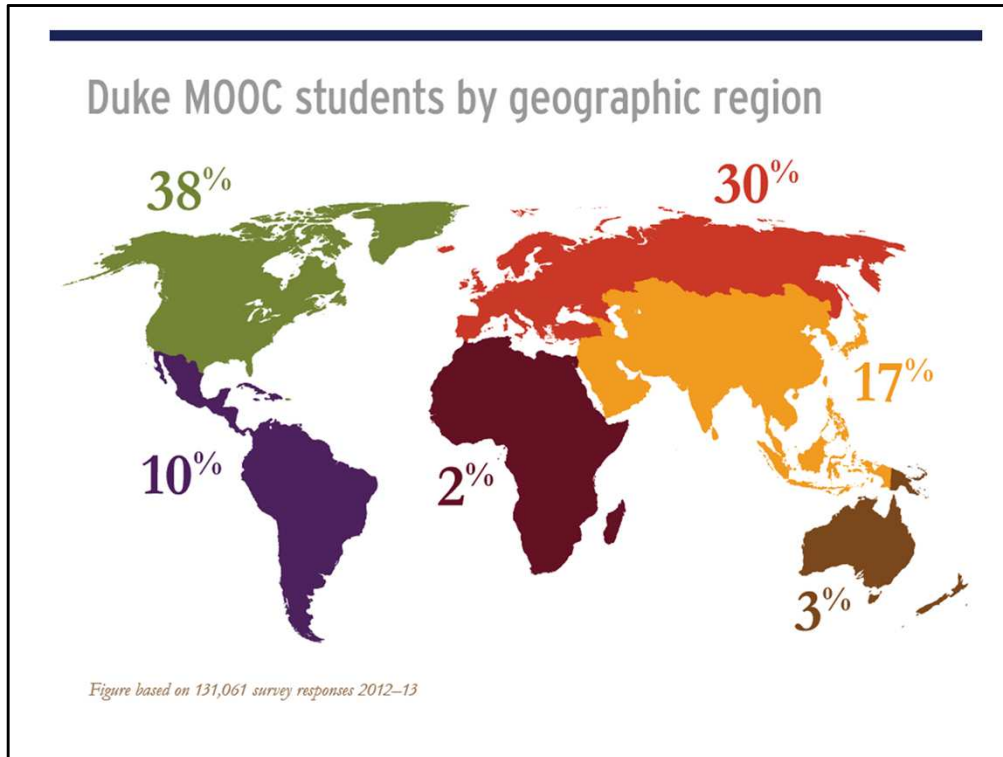
A&S:

- English Comp
- Intro Astronomy
- Sports & Society
- Think Again
- Genetics & Evolution

237K (42%) of all students were in English Comp or Think Again

Very positive feedback

Connections with Alumni, prospective students and others



Chinese enrollment likely to grow in 2013-14 due to Chinese internet provider.

2/3 from outside US

1/3 from developing countries

Most students in 26 – 54 age range

Most students have bachelor's degree or above

Numbers in MOOCs are likely to change:

- More competition. Lower enrollments in second, third, fourth run?
- Not clear what the shelf life is of each MOOC.
- Changing demographics due to China mirroring
- Younger students, with fewer who have degrees if state systems begin using shared online courses for credit. (Coursera partnered with 10 state systems last year. UNC already seeking experiments with system-wide courses for credit.

Non-MOOC experiments

Duke, UVA Join Forces to Offer Creole,
Tibetan Language Courses

Faculty presentation, October 9 – “See you / see me:
An interactive real-time online course”



Mine Çetinkaya-Rundel

Dr. Beratan’s Special Topics in Chemistry
at Duke, Pittsburgh and CMU

Campus courses using online materials, online activities

Faculty interested in for-credit online courses at Duke or cross-institutional development and teaching of online courses.

Campus courses:

- [Statistics course](#) taught online in summer
- Flipped/modified courses in Biology (Noor), Philosophy (Sinnott-Armstrong) utilizing MOOC materials

CIT had over 100 consultations with faculty last year around online courses, including for-credit and shared courses

Languages pilot with Uva

Other faculty interested in both synchronous (e.g., Chem/Beratan) and asynchronous online courses

CIT had over 100 faculty consultations about online courses last year, so more under discussion.

Last year's impact

- Influence on Coursera platform & policies; first access to new features & programs
- Attracted external funding
- Revision of campus courses
- Duke positioned as leader
- Global recognition for Duke faculty & programs
- New partnership opportunities

2013-14 online education initiatives

THIS YEAR

2013-14 New Duke MOOCs: additional schools and subjects

(plus repeat offerings of most of last year's MOOC courses)

Faculty :	Primary Department	Course:
David Boyd	Duke Global Health Inst.	The Challenge of Global Health
Dorian Canelas	Chemistry	Introduction to Chemistry
Mine Çetinkaya-Rundel	Statistics	Data Analysis and Statistical Inference
Cathy Davidson	English	History and Future of Higher Education
Nita Farahany	Law	Genes, Brains, & Law
Jennifer Groh	Psychology & Neuroscience	The Brain and Space
Laurence Helfer	Law	International Human Rights Law
Bruce Jentleson	Public Policy	American Foreign Policy in the 21 st Century
Dave Johnston	Marine Sci. & Conservation	Marine Megafauna: Intro. To Marine Science
David Schanzer	Public Policy	9/11 and Its Aftermath

Plus revision and re-offering of 8 – 11 MOOCs from last year
Queue of course proposals awaiting ACOE input

Other explorations

- Two Duke-only courses will try 2U platform and teaching model in 2013-14
- Faculty Fellows Program: [Flipping courses](#)
- Summer 2014 online writing course
- Assessment projects
- Speakers and public events for broad discussion
 - Nov. 13: Al Filreis: Openly Teaching the Open Online Humanities Course
- CFP in Oct. for highly innovative online courses/curriculum for fast development in spring 2014

Flipped/modified courses in Biology (Noor), Philosophy (Sinnott-Armstrong) utilizing MOOC materials

Duke-U VA less commonly taught languages pilot

Proposed collaborative development and teaching of online courses, modules:

Duke/Melbourne U Art Markets (DeMarchi); Oak Ridge Nat'l Lab (Calderbank)

New staff in VPAA for data management, research support

Develop Data warehouse in SSRI

Faculty Online Assessment Committee

Collaboration with RTI –Gates proposal

Comer –analysis of last year's writing MOOC for Gates

Canelas and Çetinkaya-Rundel – student learning in Introductory MOOCs

Comer and Canelas –MOOC Research Initiative grant on MOOCs for writing in intro level courses

Ithaca study of blended learning with MOOC materials

Metzloff and Rasiel blended courses

Sinnott-Armstrong comparison of online and on campus

Stay informed: online.duke.edu



ONLINE COURSES

Search this site



Duke is experimenting with several new models for education. The goals for Duke's online education initiatives are to encourage teaching innovation, extend Duke's commitment to sharing knowledge in service to society and showcase Duke's excellent faculty and academic programs. Recent activities are [highlighted here](#).

Map data ©2012 Google, INEGI, MapLink

(The image above comes from a map generated by students taking Walter Sinnott-Armstrong's Coursera course Think Again: How to Reason and Argue.)

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Events

[Upcoming Coursera Events](#)

[Past Events](#)












In the News

[Intro to Human Physiology relaunched with Coursera](#)
(August 12, 2013)

[Nature Covers MOOCs](#)
(July 18, 2013)

DISCUSSION

2012-13 Duke Coursera MOOCs: varied schools, disciplines and levels

	Bioelectricity: A Quantitative Approach Roger Coke Barr <input type="checkbox"/> Duke University		Medical Neuroscience Leonard E. White <input type="checkbox"/> Duke University
	Introductory Human Physiology Emma Jokoi, Jennifer Carbray <input type="checkbox"/> Duke University		Healthcare Innovation and Entrepreneurship Bob Barnes, Marilyn M. Lombardi <input type="checkbox"/> Duke University
	English Composition I: Achieving Expertise Denise Comer <input type="checkbox"/> Duke University		Sports and Society Orin Starn <input type="checkbox"/> Duke University
	A Beginner's Guide to Irrational Behavior Dan Ariely <input type="checkbox"/> Duke University		Think Again: How to Reason and Argue Walter Sinnott-Armstrong, Ram Neta <input type="checkbox"/> Duke University
	Introduction to Astronomy Ronen Plesser <input type="checkbox"/> Duke University		Introduction to Genetics and Evolution Mohamed Noor <input type="checkbox"/> Duke University
	Image and video processing: From Mars to Hollywood with a stop at the hospital Guillermo Sapiro <input type="checkbox"/> Duke University		

Multiple schools and departments
 Quick production, information assessment, iteration
 Hard work but faculty want to teach the courses again