Online Initiatives at Duke

Arts & Sciences Council
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2012-13 online educational initiatives

LAST YEAR
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.)
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)*

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Primary Department</th>
<th>Course:</th>
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<tbody>
<tr>
<td>David Boyd</td>
<td>Duke Global Health Inst.</td>
<td>The Challenge of Global Health</td>
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<tr>
<td>Dorian Canelas</td>
<td>Chemistry</td>
<td>Introduction to Chemistry</td>
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<tr>
<td>Mine Çetinkaya-Rundel</td>
<td>Statistics</td>
<td>Data Analysis and Statistical Inference</td>
</tr>
<tr>
<td>Cathy Davidson</td>
<td>English</td>
<td>History and Future of Higher Education</td>
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<tr>
<td>Nita Farahany</td>
<td>Law</td>
<td>Genes, Brains, &amp; Law</td>
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<tr>
<td>Jennifer Groh</td>
<td>Psychology &amp; Neuroscience</td>
<td>The Brain and Space</td>
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<tr>
<td>Laurence Helfer</td>
<td>Law</td>
<td>International Human Rights Law</td>
</tr>
<tr>
<td>Bruce Jentleson</td>
<td>Public Policy</td>
<td>American Foreign Policy in the 21st Century</td>
</tr>
<tr>
<td>David Schanzer</td>
<td>Public Policy</td>
<td>9/11 and Its Aftermath</td>
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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
Ithaka 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


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