Emerging Technologies Enabling New Models of Higher Education Access, Affordability, Collaboration and Effectiveness

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Internet Impacts our Lives

The Internet impacts all of our lives in ways that grow so subtly that we often may not notice.

At the University of Illinois Springfield, we are leading through research and in identifying best practices in utilizing the Internet to enhance higher education.

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Technologies for Access and Affordability

Online Learning – a large part of UIS – enables many to attend who would otherwise be unable to enroll: fall 2012 snapshot

- Online majors made up **30.2%** of UIS headcount enrollment.
- At **1,527**, the number of online majors increased by 102 from Fall 2011.
- **38.0%** of credits were generated in online courses.
- **61.0%** of UIS students took at least one course online.
- **43.0%** of online majors have mailing addresses outside Illinois.
- **85.7%** of the Illinois students have mailing addresses outside Sangamon county –from 75 Illinois counties
- Online majors come from **48** states and **10** countries
- The average age for online graduate and undergraduate majors is **35**

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"Big Data": Analytics Enhancing Understanding and Completion

Now in the third year of the Bill and Melinda Gates Foundation funded Predictive Analytics Reporting Project

- Massive quantity of data points to better understand our online students, their success/challenges

- Leads us to new insights:

  - Students who concurrently enroll at UIS and Community College far more likely to persist (88.9% in three year tracking)

  - Students who take at least two online summer classes are more than twice as likely to complete degrees in fewer than four years (18.1% compared to 7.4%)

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Community College Connections Online

UIS is the lead institution in a Bill and Melinda Gates Foundation funded project – Learning First – that utilizes UIS' unique 1-2-1 concurrent enrollment model.   Key features:

- Qualified community college students have been held back by course availability can now move forward by taking selected upper division classes

- This project creates a pipeline for students in Orange County California to complete degrees online at UIS with a double safety net of services (e.g. library, tutors, advisers)

- This establishes a model which we have informally delivered for the past dozen years to community college students in Illinois

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New Approaches to Assure Mastery in Learning

UIS is partnering with a Bill and Melinda Gates Foundation funded college – Portmont – that is offering students an *adaptive*, sometimes called *mastery*-learning, curriculum.

Adaptive Learning:

- Students complete quizzes upon completion of class modules
- The student may not progress to the next module until achieving 100% on the prior module
- Computer-driven systems offer alternative learning-style lessons to those who achieve lesser scores, then re-test

Massive Open Online Classes

UIS - a pioneer in offering MOOCs – the Summer 2011 eduMOOC enrolled 2,700 from 70 countries.

Jan 28, we begin our Emancipation MOOC https://uis.coursesites.com

UIS: leading research in the Gates Foundation funded – American Council on Education-led assessment of MOOCs project, creating a taxonomy of pedagogy supported by data analytics. We will assess MOOCs offered at Coursera and Udacity.

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How to Keep up with the Changes in Tech-Enhanced Learning

Ray tweets and publishes five daily blogs:

- Online Learning Update
- Educational Technology
- Techo-News
- Recession Realities in Higher Ed
- Professional, Continuing and Online Update
- @rayschroeder

See Ray's home for links:
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