Reengineering Education for the 21st Century

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The Challenges

- Graduation rates
- Learning outcomes
- Cost
- Business model
- Curricular alignment
- Diversity
- Institutional inertia
From Students to Partners and Producers

- From mass production to customization
- From a transmission to an interaction model
- From sink or swim to universal proficiency
- From an artisanal to a collaborative approach
- Alternatives to the course/semester-centric model

A Paradigm Shift
Rethinking Curricular Design

- Purposeful design
- Carefully considered learning goals
- Connections among classes
- A meaningful sequence of courses
• A structured pathway to a degree
• Clearly defined learning outcomes
• An optimized curriculum
• Can begin in high school or community college

The Degree Vertical
Next Generation Courseware

- Embedded diagnostics
- Adaptive learning pathways
- Advanced interactives and simulations
- Opportunities for collaborative and social learning

Replacing the Textbook
• Monitor student engagement, participation, and progress
• A progressive personal profile
• Learning dashboards for students, faculty, and advisors
• Predictive algorithms
Course Delivery

- Low residency
- Cohorting
- Synchronous online
Future-Facing University

- Accelerated pathways
- Bare-bones university
- Experimental models
- Corporate universities
- Distributed university
- The university in the cloud
• Undergraduate research
• Experiential learning
• Innovation incubators
• Online masters, doctoral, and professional programs
• International connections
• Lifelong partner

Future of the Research University