The Open Org in Education

Greg Hislop – Drexel University
Heidi Ellis – Western New England University
Academic Organization

College of Arts & Sciences
- Math
- Biology
- Chemistry
- ...

School of Engineering
- Electrical Eng.
- Chem Eng.
- ...

...
Faculty Hierarchy

- Assistant Professor (6-7 years)
- Lecturer/Instructor
- Associate Professor (6-8 years)
- Full Professor (22-25 years)
Course Approval Process
Sophomore Devops

2017
Idea
Proposal
Course Development

2018
Approval
Offering (spring)
In Catalog (fall)

2019
In Degree

2020
First grad
How Do We Reconcile Cultures?
Aspects of Culture Change

• Change has to happen at all levels:
  - Course
  - Department
  - School/college
  - Institution

• How do we change from a hierarchy to open?
Big Picture: Center for Computational Science

- Interdisciplinary computing
- Humanitarian, real-world projects
Path to Vision

- Start at course level
- Demonstrate value to faculty
- Invitation to be open
- Incentivize interdisciplinary collaborations
Foundations of an Open Source World

- Freshman – point of change
- Inculcate culture early
  

Foundations … Empowerment
Foundations …
Manage By Example
Foundations …
Fast Innovation
Foundations …
Incremental Improvement
Foundations ... Collaboration
Culture Change

• Faculty members no longer the expert

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Learning Based on Mertitocracy

- Students achieve performance-based objectives in their own time
- Objectives are updated agilely as new technology and theory emerge
- Students and faculty learn collaboratively from the community
Faculty Governance Based on Transparency

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Rapid Content Innovation

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How would degrees change?
- New types of degrees?
- Livelong learning?

How would department/school organization change?

How would faculty governance change?
The Perfect World

- Learning is humanitarian, real-world and project-based
- Students achieve performance-based objectives
- Objectives are updated agilely as new technology and theory emerge
- Students and faculty learn collaboratively from the community