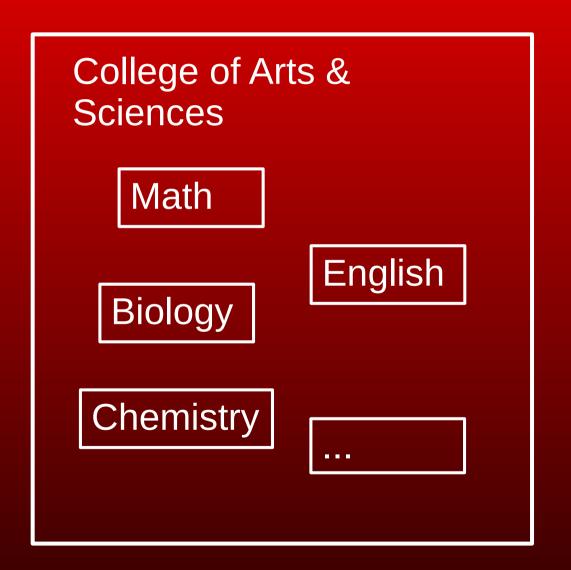
The Open Org in Education

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





Academic Organization



School of Engineering Mech. Eng. Electrical Eng. Chem Eng.

Faculty Hierarchy

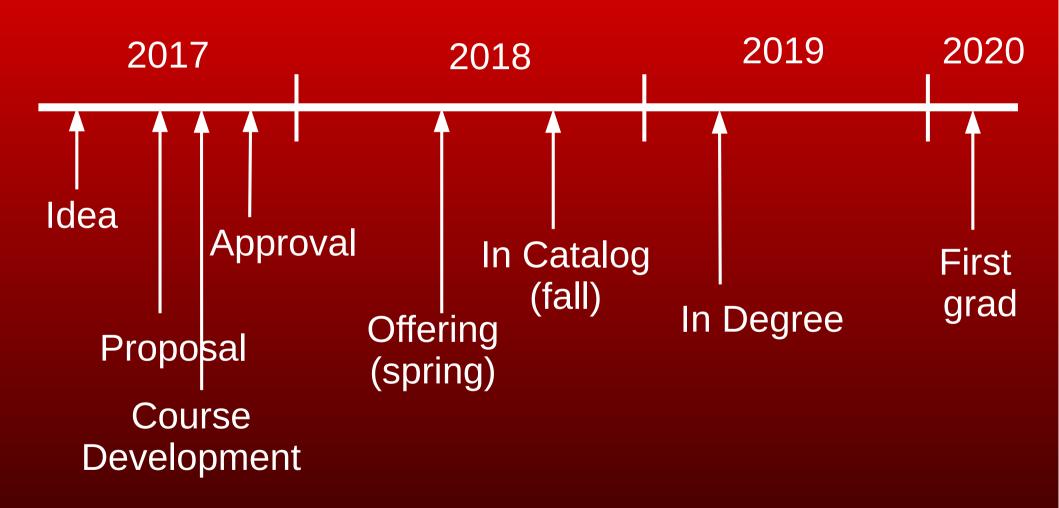
Full Professor (22-25 years)

Associate Professor (6-8 years)

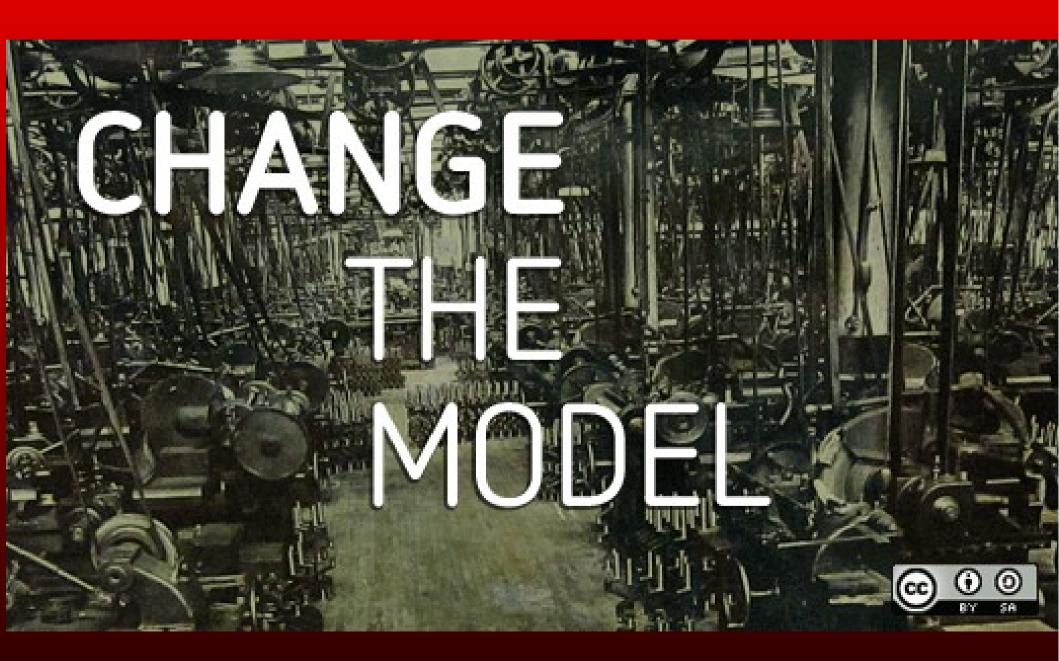
Assistant Professor (6-7 years)

Lecturer/Instructor

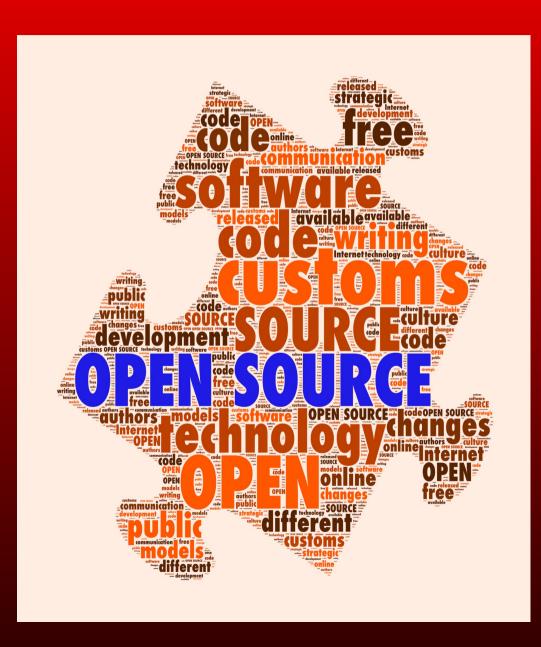
Course Approval Process Sophomore Devops



Open Organization



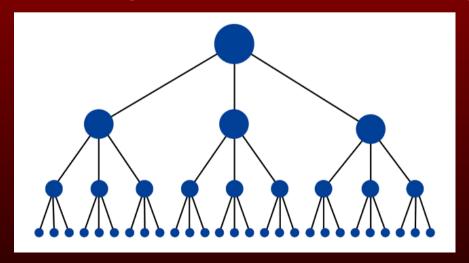
How Do We Reconcile Cultures?





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

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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Raises Lots of Questions

- 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