Re-Inventing Quality in Higher Education: Future of Interdisciplinary Programs

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Expected Learning Outcomes

- Identify strategies to break down interdisciplinary silos across the institution by overcoming barriers, building relationships, and organizing for interdisciplinary programs
- Use the models presented to reflect on their own institution's situation in planning for and delivering interdisciplinary programming

Interdisciplinary Interdisciplinary = involving two or more academic, scientific, or artistic disciplines to create new methodology Business Health-Care Education

Multi-disciplinary Multi-disciplinary = non-integrative mixture of disciplines in that each discipline retains its methodologies and assumptions without change or development from other disciplines within the multidisciplinary relationship. Health **Business Education** Care

Interdisciplinary Learning

- 21st century imperative (AAC&U, Keck/PKAL)
- 4 drivers (National Academy of Sciences)
- Inherent complexity of nature and society
- Desire to explore problems and questions that are not confined to a single discipline
 Need to solve societal problems
- Students, especially undergraduates, are strongly attracted to interdisciplinary courses, especially those of societal relevance.

Growth in Interdisciplinary Programs

- National Center of Educational Statistics
 - 7,000 degrees awarded in 1973
 - 30,000 degrees awarded in 2005
- AAU

University interdisciplinary programs, centers, and institutes have grown in number, diversity, and complexity.

Growth reflects (societal) needs but also presents important challenges to university administrators

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Panafits of Interdisciplinary Learning			
Benefits of Interdisciplinary Learning			
■ Think of 3 benefits of interdisciplinary learning			
Partner with someone near you			
■ Share your benefits with each other			
■ Share the benefits you have identified with our larger			
group			
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Benefits			
 Interdisciplinary learning shares many features with service-learning, and other form of collaborative learning 			
■ Higher levels of student engagement			
Deep forms of learningIntegrative thinking and problem solving			
Barriers to Interdisciplinary Learning			
■ Think of 3 barriers to interdisciplinary learning			
■ Partner with someone near you			
□ Share your barriers with each other			
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Share the barriers you have identified with our larger			
Share the barriers you have identified with our larger group			

Barriers

- Disciplinary "bias"
 Perception of interdisciplinary work as "soft" or without rigor
- □ Concern that grant agencies, publishers, and/or tenure committees may not understand/undervalue this work

- Insufficient autonomy/joint faculty appointments
 Budgetary practices, FTEs
 Slioed and bureaucratic nature of educational institutions
 Reward systems
 Faculty training and socialization
 Disciplines

Overcoming Barriers

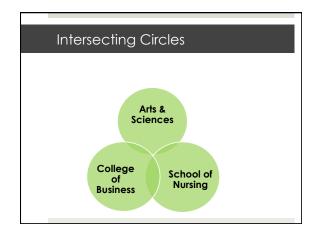
- □ Small steps. . .rethink
- $\hfill\Box$ If committed to long-term. . .redesign
- Collaboration is the key underpinning of a successful and sustainable interdisciplinary program.

Creating a collaborative campus is an intentional and deliberative process. It does not happen by accident...and it will not occur until major organizational systems are intentionally redesigned. (Kezar & Lester, 2009)

Processes (Keck/PKAL) and Models

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Models Intersecting circles Provost Model Center/Institute Model



 Several disciplines that cross school or college lines "Lead" Dean with "collaborating" Deans Tuition Revenue is distributed based on business plan Revenue follows expense (unit that offers cost) Lead school collects all tuition and disperses to others Leadership and Administration Director, coordinating committee – report to Graduate Dear Faculty Appointment 	Intersecting Circles
 Revenue follows expense (unit that offers cost) Lead school collects all tuition and disperses to others Leadership and Administration Director, coordinating committee – report to Graduate Dear 	
Director, coordinating committee – report to Graduate Dear	Revenue follows expense (unit that offers cost)
■ Faculty Appointment	■ <u>Leadership and Administration</u> ■ <u>Director, coordinating committee</u> – report to Graduate Dean
Appointment in "home" school	

Provost Model

- Interdisciplinary programs report to provost
- <u>Tuition Revenue</u> comes from provost office & program expenses flow through provost office
- Leadership & Administration
 - Program Director report to Graduate Dean
- Faculty Appointments
 - Appointment in "home" department within school/college

Center/Institute Model

- Funding from endowment, grants, tuition revenues, general funds
- Tuition Revenue follow expense
- <u>Leadership & Administration</u>
 - Director report to Dean and Provost
- Faculty Appointments
 - Primary appointment to the Center or
 - Dual appointment between Center and College/School
 - Not a faculty "home" for Rank & Tenure

Executive Summary

- Models and Strategies for Interdisciplinary Collaboration at Private Research Institutions (University Leadership Council, 2010)
- Interdisciplinary programs are generally administered out of the office of the Provost
- Administrators are usually Associate Provosts in charge of Interdisciplinary programming or deans of the college
- Funding for interdisciplinary programs is primarily drawn from the budget for the office of the provost

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No contact institutions offer faculty members incentives for teaching interdisciplinary courses The majority of institutions rely on volunteer faculty from the college of arts & sciences to teach interdisciplinary

- Interdisciplinary programs are almost entirely composed of cross-listed courses already offered across academic departments
- Interdisciplinary programs have no separate budget

Administrative Challenges: Overview

- Making the case
- Building internal and external alliances
- Strategies to address "loose coupling" in higher education
- Collaboration is a developmental process

Making the Case

- Need for Interdisciplinary Leadership
- Complex problems require multiple disciplines
- $\hfill \square$ Institutional size and complexity is a strong asset
- $\hfill\Box$ Fit with institutional mission

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Internal Alliances	
Internal Alliances	
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Get the right people on the bus	
■ Generative, cross disciplinary boundaries	
□ Task oriented	
Innovative, risk takers	
Administrative cover	
Find a champion	-
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External Alliances	
You are not a prophet in your own land	
Get expertise/wisdom	
Leverage wise counsel	
Plan a strategy	
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Re-group if necessary and try again	
Breaking down silos	
Loose coupling in higher education is a challenge	
Stay centered on collaboration and efficiency	
Use proof of concept argument	
■ Traditional institutions need to become NIMBLE	

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Redesigning for Collaboration in HE			
(Kezar, 2005)			
CTA CE la Dailation Consentant and the Callada and the			
 STAGE 1: Building Commitment to Collaboration Networks, learning and values 			
■ STAGE 2: Commitment to Collaboration			
 Sense of priority, executive support and campus network 			
 STAGE 3: Sustaining Collaboration Integrating structures, rewards and formalizing the network 			
integrating structures, rewards and formalizing the network			
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Organizing for Interdisciplinarity			
■ Communication			
Leadership			
Support			
■ Structure			
Community			
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Communication			
■ Listening tours			
Places for talking			
Assume creativity			
Planned serendipity			
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	La carla adella		
	Leadership		
	Celebrate successes		
	Reward growth from failure		
	□ Trust		
	Partner with faculty and staff		
	Relinquish control		
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	Support		
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	□ Give time		
	Local control	-	
	Target funding		
	Clear paths		
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	Structure		
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	Catwalks and bridges		
	Windows and walls		
	■ Fellows		
	■ Lateral movement		
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Community
Build on institutional values
Listen to students
Partner with your external community
■ Serve someone