STUDENT SUCCESS IN THE SUB-DEGREE SECTOR

DR. LINDA S. BOWMAN

VICE PRESIDENT, COLORADO COMMUNITY COLLEGE SYSTEM

PRESIDENT EMERITUS, COMMUNITY COLLEGE OF AURORA

FULBRIGHT SENIOR SPECIALIST

Linda S. Bowman, Ph.D.

- From the two-year-degree sector
- Educated in General Education tradition
- Educated in Professional discipline
- Experience in private (self-financed) and public sectors
- Experience in policy development and implementation

Exciting time in Higher Education--Worldwide

- Paradigm shift to Learner-centeredness
- Advances in sciences of learning
- Development of interdisciplinary initiatives
- Implications of technology
- New models for scheduling & completion
- New/renewed interest in General Education
- Evolution & revolution of new economies
- New imperatives for education & training
- Reforms in remedial/development education
- Development of new CC Honors Colleges
- Concurrent credit in high schools (secondary)
- New models for institutions

U.S.: Policy Goals 1960s and Beyond

- Universal Access: easy entry
- Termed Democracy's Colleges
- Opening doors; 2nd chance
- Post-war educational access goals
 - WW II; Vietnam
- Economic development
- Social responsibility
- Closing attainment gaps: females, minorities
- Work to be done: difficult exit

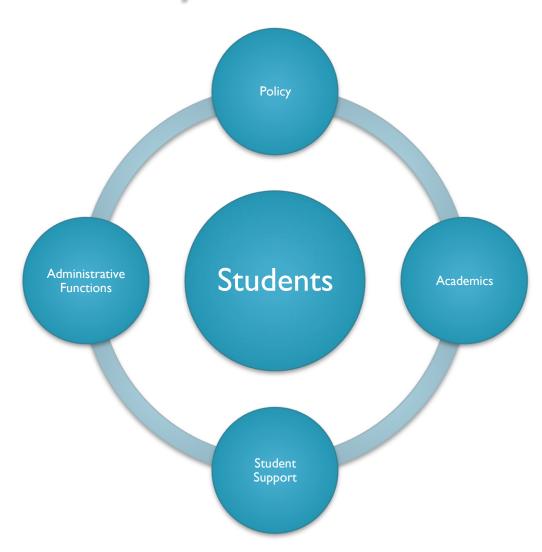
Hong Kong: Policy Goals 2010

- Assuring growth in capacity of entire system
- Assuring students at sub-degree institutions can graduate in same time as native students
- Implementing 3-3-4
- Implementing GE
- Extending access

Differences between HK and US

- Public and private institutions in US
- Public and private institutions in HK
 - Funding
 - Policy levers
 - Coordinating Boards

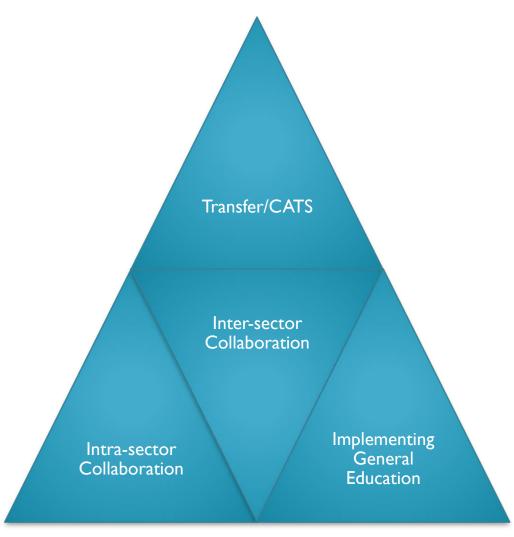
Key Similarity: Focus on Students



GE and Transfer as organizing framework

- GE and Transfer: the right thing to do for students, for families, for economies, for the future
- Opportunity to achieve broader institutional goals
- Possibility to utilize GE and Transfer to frame strategic plan for institutions

Critical Components to Attain Goals



Success strategies for high transfer rates

- Data-based decision-making
- Collaborative campus programming
- Supportive administrative offices
- High faculty engagement
- Valuing students
- Culture of performance and accountability
 - US Pell Institute

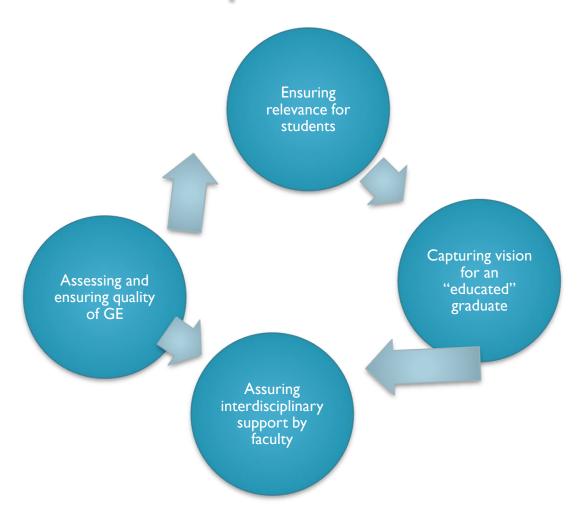
Role of Leadership: Formal and Informal

- Defining the parameters
- Articulating the benefits
- Creating a culture of collaboration internal/external
- Providing support in dynamic environment
- Honoring the past/preparing the future
- Strengthening a culture of accountability
- Ensuring a culture of quality assurance

Collaboration within the Sub-degree sector

- Balancing Competition v Collaboration
- Defining shared interests
- Acknowledging differences: Associate Degree, Higher Diploma
- Creating environments for sharing
- Overcoming barriers to change
- Collaborating on student learning research

Critical Components of GE



Implementing General Education with Transfer as a Goal

- Critical foundation: understanding GE in four-year sector
- Collaboration across the two-year sector
- Individualization within institutions

Establishing the Rationale for General Education

- providing a context for critical thinking and problem solving
- thinking outside of the program of study
- tackling problems and proposing multiple solutions
- expanding one's context
- creating new insights (from personal reflection and thoughts of previous Fulbright scholars in Hong Kong)

Implementing Best Practices in GE

- Student-centered Teaching & Learning
- Learning Styles
- Brain Rules: Dr. John Medina
- Role of Technology
- Effective Implementation of GE
 - Design
 - Training
 - Support
 - Quality Assurance
- Research on student learning
- Closing the assessment loop

Approaches to the Teaching and Learning Partnership

- Students as partners
- Case studies
- Group work
- Backward course design
- Flipping
- Interdisciplinary approaches:
 - http://www.denverpost.com/news/ci_2
 0249700/fake-crimes-teach-real-lesson

Critical Role of Assessment of Student Outcomes

- How do we understand the assessment of GE?
 - In courses-as we have
 - In programs-in GE as well as professional disciplines
 - In colleges-whole person assessment for graduates
 - In the sub-degree sector-defining credentials,
 e.g. Qualifications Framework (HK); e.g. Work
 Keys (US)

Key Result: Transfer

- Student-centered System
 - Defined Pathways
 - Easily navigated
- CATS (Credit Accumulation and Transfer System)

Colorado Career Cluster Model



Management and Administration

- Administrative Services
- Business Information Technology
- Corporate/General Management
- Human Resource Management
- Operations Management

Marketing

- Marketing Communications Planning
- Marketing Management
- Marketing Research
- Merchandising
- Professional Sales/Sales Management

Finance

- Accounting
- Banking Services
- Corporate Finance
- Insurance
- Securities & Investments

Government & Public Administration

- Foreign Service
- Governance
- Legal Services
- Public Management & Administration
- Regulation
- Revenue & Taxation

Business, Marketing & Public Administration

Hospitality, Human Services & **Education**

Hospitality & Tourism

- Lodging
- Recreation, Amusements & Attractions
- Restaurants, Food & Beverage Services
- Travel & Tourism

Human Services

- Consumer Services
- Counseling & Mental Health Services
- Early Childhood Development
- Family & Community Services
- Personal Care Services

Education & Training

- Administration and Administrative Support
- Professional Support Services
- Teaching and Training

Agriculture, Food & Natural Resources

- Animal Science*
- Agribusiness Systems
- Food Products & Processing Systems*
- Natural Resource & Environmental Systems*
- Plant Science*
- Power, Structural & Technical Systems*

Energy

- Electromechanical Generation & Maintenance*
- Electrical Energy Transmission & Distribution*
- Energy Efficiency & Environmental Technology*
- Fossil Energy Extraction, Processing & Distribution*
- Renewable Energy Production*
- * STEM affiliated pathway

Agriculture, Natural **Resources & Energy**

Postsecondary & Workforce Readiness

Foundation knowledge & skills for all career pathways include:

- Academic Content Knowledge Civic Responsibility Collaboration • Communication • Creativity & Innovation
- Critical Thinking/Problem Solving Find/Use Information Technology
- Global & Cultural Awareness Personal Responsibility Work Ethic

Specialized CTE Pathways include: Alternative Cooperative Education (ACE), FACS CORE & World of

Health Science, Criminal Justice & **Public Safety**

Health Science

- Biotechnology Research & Development*
- Diagnostic Services*
- Health Informatics
- Supportive Services
- Therapeutic Services*

Law, Public Safety, Corrections & Security

- Correction Services
- Emergency & Fire Management Services*
- Law Enforcement Services
- Security & Protective Services
- * STEM affiliated bathway

STEM (Science, Technology, Engineering & Math) See also STEM affiliated pathways noted by *

- Research, Exploration & Innovation
- Design, Development & Application

Arts, A/V Technology and Communication

- Audio/Video Technology & Film
- lournalism & Broadcasting
- Performing Arts
- · Printing/Publishing
- Visual & Design Arts

Information Technology

- Information Support and Services
- Interactive Media
- Network Systems & Telecommunications*
- Programming & Software Engineering*

STEM, Arts, Design & Information **Technology**

Skilled Trades & **Technical Sciences**

Architecture & Construction

- Construction
- Design & Pre-construction*
- Maintenance & Operations

Manufacturing

- Health, Safety & **Environmental Assurance**
- Logistics & Inventory Control
- Manufacturing Production
- Maintenance, Installation & Repair
- Production/Process Technology*
- Quality Assurance

Transportation, **Distribution & Logistics**

- Facility & Mobile Equipment Maintenance
- Health, Safety & Environmental Management
- · Logistics, Planning & **Management Services**
- Planning, Management & Regulation
- Sales & Service
- Transportation Operations
- Transportation/Systems Infrastructure
- Warehousing & Distribution Center Operations
- * STEM affiliated pathway

Lessons from the States

- California: access without sustainability
- Florida: comprehensive approach to degree transfer
- Washington state: universal transfer of the Associate of Arts
- Colorado experience: making progress through policy-making

Colorado's Transfer Journey: What Lessons Might Apply?

- Creation of CCNS in two-year sector
- Conversations with four-year sector
- Most-willing participants first: Private universities--Regis U and others
- Implementation with the public sector universities:
 - Needed laws and rules to implement:
 - Transferable Core
 - Transferable Generalist AA and AS
 - Transferable Designated Degrees

Colorado Department of Higher Education: At the State Level

- For students and parents:
 - http://highered.colorado.gov/Academics/Transfers/Students.html
 - For educators and administrators:
 - http://highered.colorado.gov/Academics/Transfers/

2-year College System-wide Approach to Transfer

http://www.cccs.edu/edservices//transfer.h
 tml

At the institutional level

 http://www.ccaurora.edu/programsclasses/transfer-options/transfer-degrees

Key Efforts

- Determining how meet multiple interests: students, public agenda, higher education institutions
- Seeking "most willing" partners first
- Accumulating successes
- Building external support

Tell the story: the Spokespersons

- U.S. President Barack Obama
 - "our community colleges...a career pathway to the children of so many working families." State of the Union Address, 28 January 2010
- Dr. Jill Biden, community college faculty and wife of U.S. Vice President Joe Biden:

"This is the moment for community colleges. Our work has just begun." Chronicle of Higher Education, 14 April 2010

US Rationale for Support for Transfer

- By 2020, 70% of jobs require post-secondary education
- Colorado: 41% of Adults have A.D. or higher
- Therefore, 29% skills gap
- 56% enter university; only 1/2 graduate
- Attainment gap: whites v minorities
- Traditional models not meeting needs
- Danger of Ist generation to be less educated than previous
- Students do as well or better
 - GPA & graduation rates
- Universities seen as Academically Adrift

Hong Kong Rationale for Support for Transfer

- Expanded transfer placements: 4,000
- Past: 18% to university
- Education and skills needed for new economy
- Dangers of bifurcated society
- Role of career ladders
- Everyone's best interest

Challenges for Hong Kong's Subdegree Sector

- Within the sector:
 - Dilemma of differentiation
 - Strength in commonalities
 - Importance of quality assurance
 - Realities of competition and the market
 - Ensuring unimpeachable quality
- Outside of the sector:
 - Need to define self-interest for universities
 - Scarcity of upper division placements
 - Public information campaign—the benefits of greater access

Sub-degree Sector: Advancing the Arguments for Transfer

- Academic staff are teaching experts
- Research into student learning
- Prime driver is student success
- Communities need education and training
- Hong Kong's students deserve a chanceand a second chance

Key Components for Success

Critical Leadership Robust, accountable General Education

Transfer Agreements

Pathways for Students

The Future is Promising

- For individual students
 - Employability
 - "Along the way" credential
- For society
 - Broader economic prosperity
 - Changing generations
 - Ensuring the future

Key Questions for Consideration

- What are the drivers for successful implementation of GE?
- What are the barriers? How will we overcome them?
- What are the incentives for society for transfer?
- What are the incentives for sub-degree providers and community colleges?
- What are the incentives—now or needed for the universities?
- Who are potential additional partners?