Economic Value of Upper Division Pathways

Tanya I. Garcia, Ph.D.

March 10, 2017
Students’ quantitative literacy abilities

Making calculations, explaining mathematical info, & converting info into equations and words

Making & evaluating assumptions, making judgments, & drawing conclusions

Math knowledge needed by workers

- College Algebra: 33%
- Algebra II: 33%
- Calculus: 4%
- Level 0-1: 8%
- Level 2: 20%
- Level 3: 1%
- Level 4: 9%
- Level 5: 58%
- Levels 6-7: 33%

SOURCE: Georgetown University Center on Education and the Workforce calculation using O*NET 18.0 and American Community Survey (ACS) 2011
Occupationally speaking...

Source: Georgetown University Center on Education and the Workforce calculation using O*NET 18.0 and American Community Survey (ACS) 2011
STEM makes up about 7% of all jobs, yet…

SOURCE: Georgetown University Center on Education and the Workforce calculation using American Community Survey (ACS) 2011
Alignment is part of the answer
Curriculum Alignment with Workforce Requirements

Types of data/info

• Occupational data (e.g., O*NET)
• Employer feedback

Example

• Texas State Technical College System Skills Outcome Analysis

Potential uses

• KSAs required for jobs
• Compare curriculum and occupational competencies
• Occupations with similar skill requirements
# Program Alignment with Labor Market Demand

## Types of data/info
- Employment & earnings data by occupation & industry (e.g., ACS, OES, UI)

## Potential uses
- Local occupations in demand
- Earnings by education level
- Highest paid jobs
- Range of education levels within occupations

## Examples
- California [CTE LaunchBoard](#)
- Connecticut [Training and Education Planning System](#)
Expand your existing partnerships

• Career services leaders on campus
• State/local employers
• State labor/workforce agency
• State economic development agency and workforce investment boards
Learning is a change—in knowledge, behavior, belief, or attitude—that unfolds over time.

-- On Solid Ground, AAC&U
For More Information

Tanya I. Garcia | tig6@georgetown.edu

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