

Expanding and linking... how academic maps contribute to Student Success

TENNESSEE BOARD OF REGENTS SYSTEM

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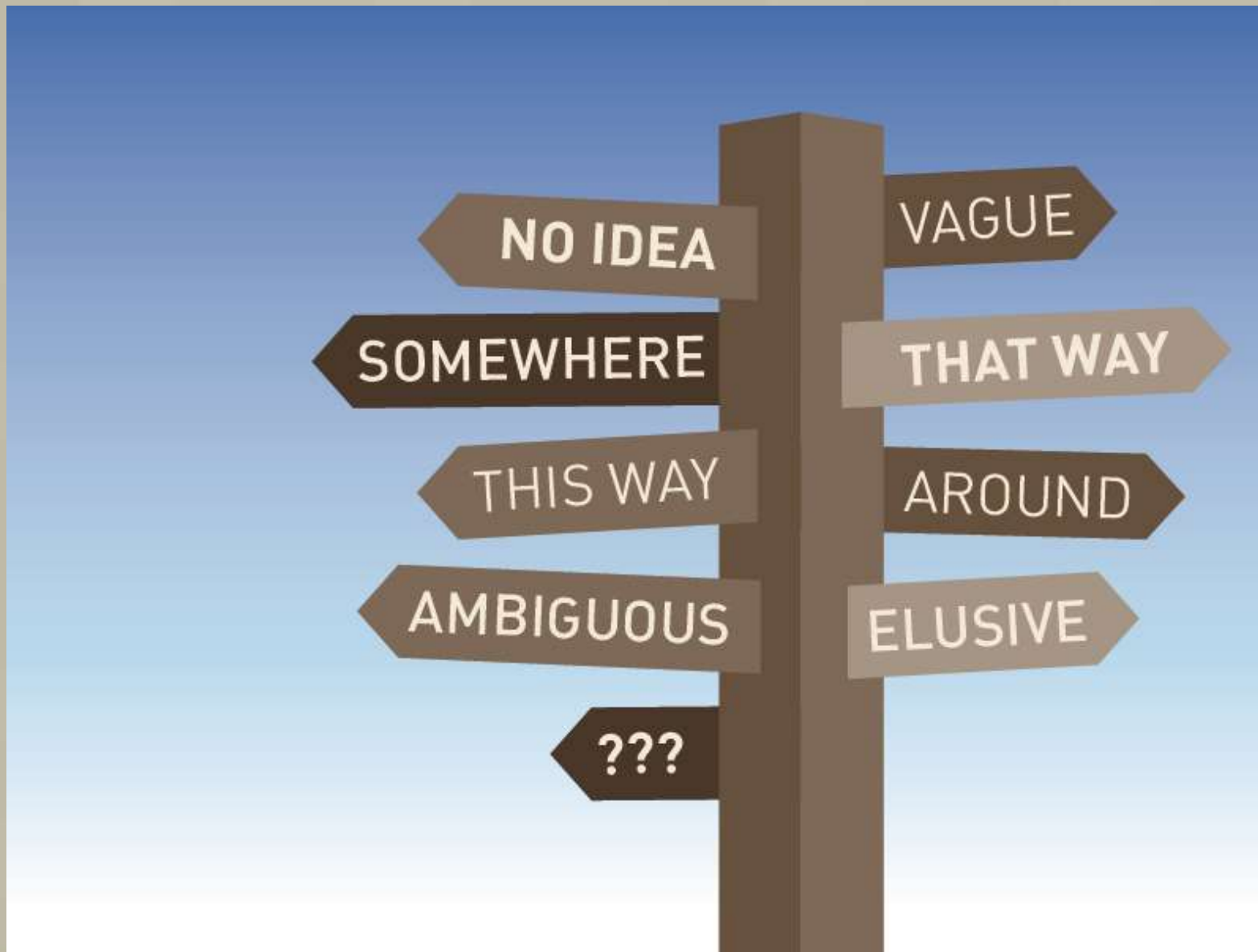
Building a Better Map

January 27, 2017

Gordon College, Georgia

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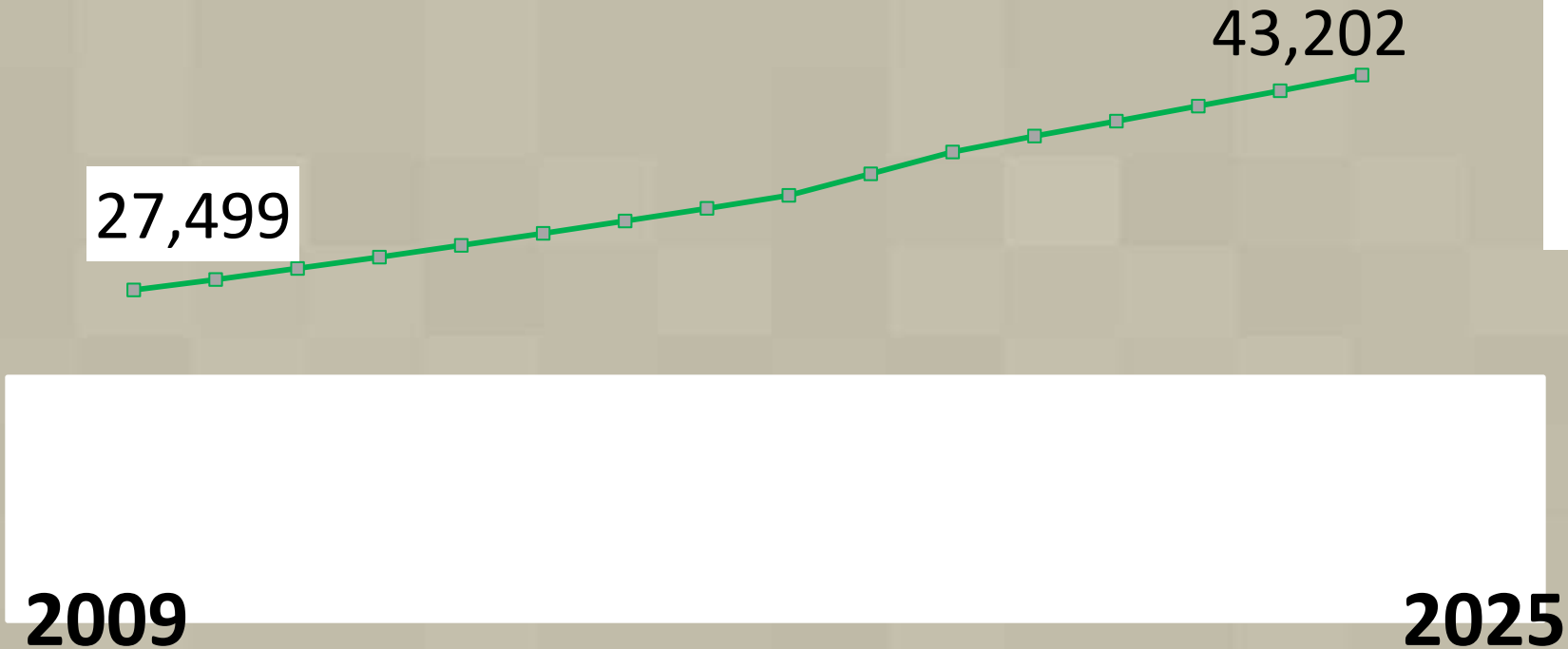
Ease on down the road...

- Overall objective
- Guided Pathways to Success strategy
- Ways to build consensus and momentum
- Implementation and going to scale
- Architected Choice
- Articulated Paths
- Tennessee Transfer Pathways
- Math Pathways
- Corequisite Remediation
- Momentum Year!
- Destination...



What are we trying to do?

Tennessee's Drive to 55 TBR 2025 Completion Goal



Total



Guided Pathways

- Creating clearly structured, educationally coherent program pathways that lead to students' end goals.
- Rethinking instruction and student support services in ways that facilitate students' learning and success as they progress along these paths.

- Bailey, Jaggars, Jenkins 2015



Guided Pathways to Success: Completion Academies 2015

- I. Clarifying Curricular Paths
- II. Helping Students Get On a Path
- III. Keeping Students On a Path



*Guided Pathways to Success:
Ways to Build Consensus & Momentum*

–Respond to Goals and Challenges

- Governor's *Drive to 55* campaign
- Outcomes-based Funding Formula
- Chancellor-directed *Completion Delivery Unit*



*Guided Pathways to Success:
Ways to Build Consensus & Momentum*

– **Use Data Analytics to**

- Establish the need
- Justify the initiative
- Make a compelling argument
- Support the outcomes



Guided Pathways to Success: Ways to Build Consensus & Momentum

– Communicate, Interact, Engage!

- TBR Board Meeting Presentations
- Presentations to Presidents Council and Subcouncils
- Campus Visits
- System-wide face-to-face meetings, summits and academies such as the TBR System-wide Completion Academies
- Frontline Working Groups such as Tennessee Transfer Pathways and Math Pathways faculty convenings



Implementation and Scaling

- **Work systemically but respond uniquely to each campus**
 - Develop and use a common template for Guided Pathways to Success with campus-specific responses
 - Collect data on critical courses system-wide but customize benchmarks for success by college and program
- **Move Quickly from Pilot to Scale**
 - Course revitalization grants
 - Co-requisite remediation



Architected Choice

From Undecided (aka Choice Paralysis) to Focus Area to Major

• Accounting	• Concrete Industry Management	• Interdisciplinary Studies, K-6, 6-8	• Physics	• Recording Industry, Music Business
• Actuarial Science	• Construction Management	• Interior Design	• Plant and Soil Science	• Social Work
• Advertising (and Public Relations)	• Consumer Education (Family and Consumer Studies)	• International Organizational Leadership	• Political Science	• Sociology
• Aerospace, Administration	• Criminal Justice (Administration)	• International Relations	• Pre-Chiropractic (Health Science)	• Spanish
• Aerospace, Flight Dispatch	• Cultural Geography	• Japanese	• Pre-Dental (Health Science)	• Special Education
• Aerospace, Maintenance Management	• Early Childhood Education	• Journalism	• (Pre-)Diagnostic Medical Sonography (Health Science)	• Speech-Language Pathology and Audiology
• Aerospace, Professional Pilot	• Economics	• Leisure, Sport, and Tourism Studies	• Pre-Engineering	• Teacher Preparation (Interdisciplinary Studies)
• Aerospace, Technology	• Engineering, Mechatronics	• Liberal Studies	• Pre-Health Information Management (Health Science)	• Theatre
• Aerospace, Unmanned Aircraft Systems Operations	• Engineering Technology	• Management	• Pre-Law	• Video and Film Production (Electronic Media Communication)
• Agribusiness	• English	• Marketing	• Pre-Medical (Health Science)	• Visual Communication
• Animal Science	• Entrepreneurship	• Mathematics	• Pre-Medical Technology (Health Science)	
• Animation	• Environmental Sustainability and Technology	• Mechatronics Engineering	• Pre-Nuclear Medicine Technology (Health Science)	
• Anthropology	• Exercise Science	• Media Management (Electronic Media Communication)	• Pre-Occupational Therapy (Health Science)	
• Apparel Design	• Fashion Merchandising	• Media Studies	• Pre-Pharmacy (Health Science)	
• Art, Studio	• Finance	• Music, Composition (Theory-Composition)	• Pre-Physical Therapy (Health Science)	
• Art Education	• Forensic Science	• Music, Instrumental Music Education	• Pre-Radiation Therapy Technology (Health Science)	
• Art History	• French	• Music, Instrumental Performance	• Pre-Veterinary Medicine	
• Astronomy	• Geoscience	• Music, Vocal/General Education	• Professional Studies	
• Athletic Training	• German	• Music, Voice Performance	• Psychology	
• Biochemistry	• Global Studies	• Music Industry	• Public Administration	
• Biology	• Graphic Design (Art)	• New Media Communication	• Public Relations (and Advertising)	
• Business Administration	• Healthcare Administration	• Nursing	• Real Estate	
• Business Education	• History	• Nutrition and Food Science	• Recording Industry, Audio Production	
• Chemistry	• Horse Science	• Organizational Communication	• Recording Industry, Commercial Songwriting	
• Child and Family Studies (Family and Consumer Studies)	• Industrial/Organizational Psychology	• Organizational Leadership		
• Communication Studies	• Information Systems	• Philosophy		
• Community and Public Health (Computer) Information Systems	• Information Technology	• Photography		
• Computer Science	• Insurance	• Physical Education		
	• Integrated Studies			



Architected Choice

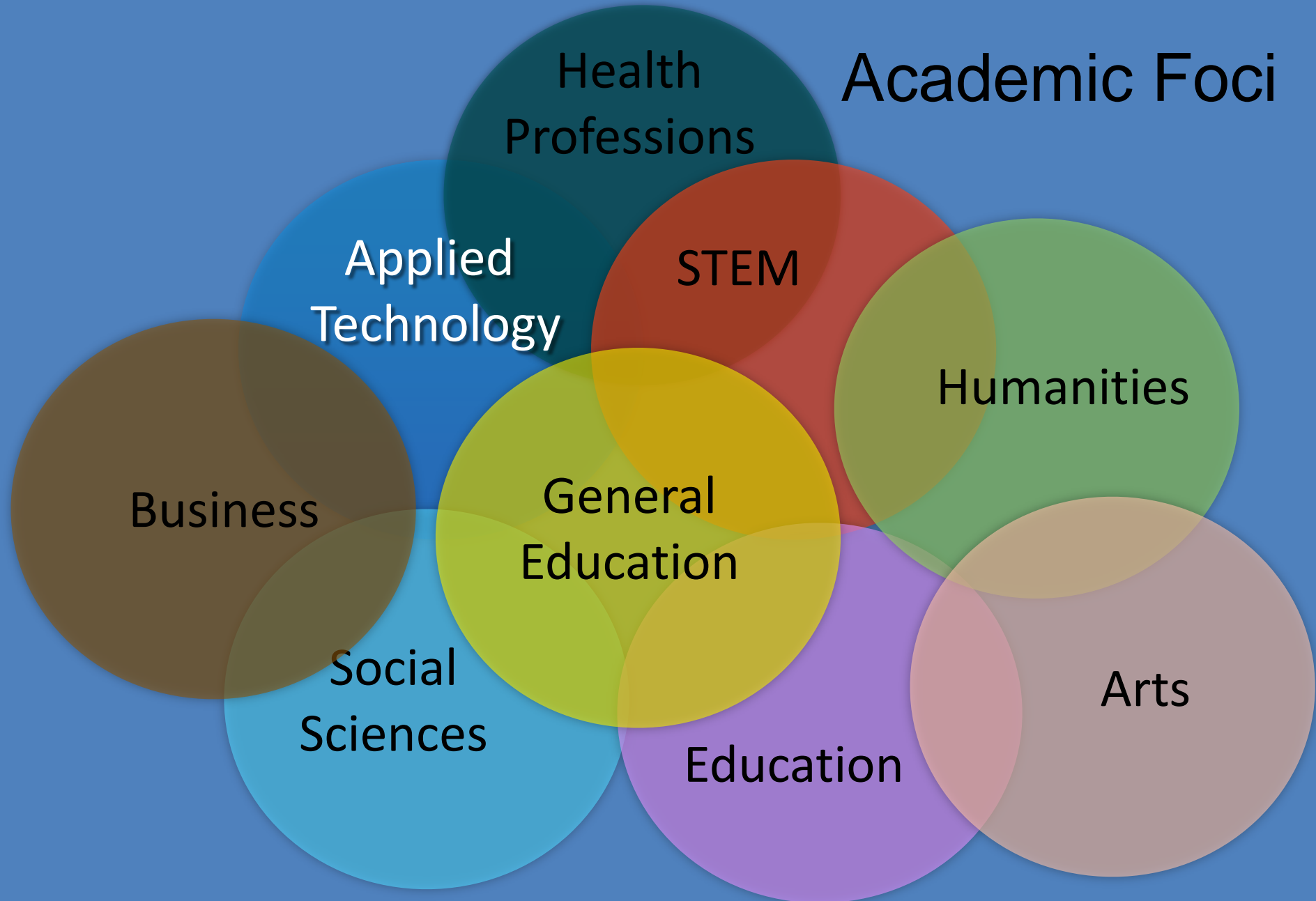
From Undecided to Focus Area to Major

– Stages of implementation

- The story our data told
- Making the story stick
- Collaboration: from Undecided to Meta-major to
- Academic Foci!

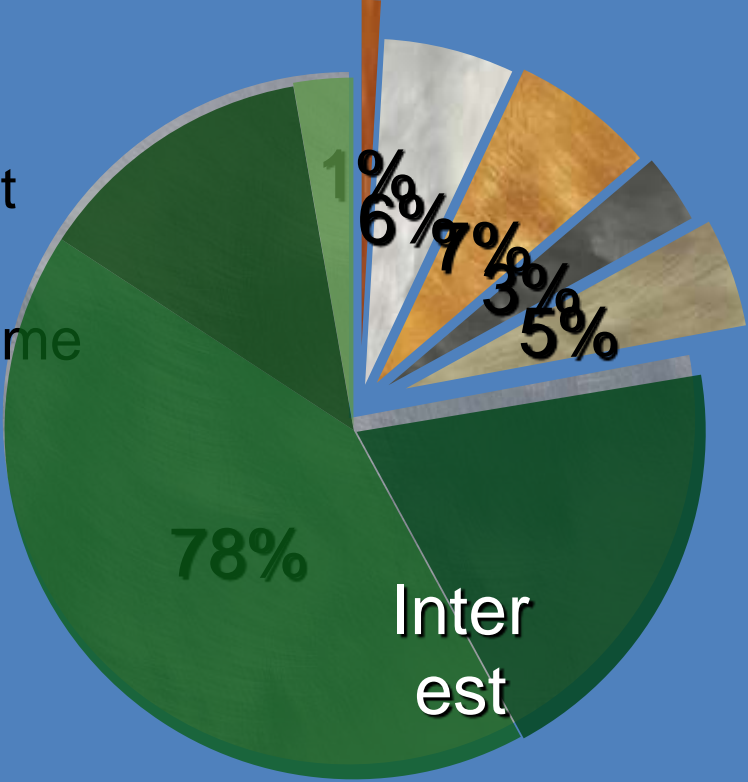


Academic Foci




How did the existence of academic foci affect student program choice?

- I have not selected a final major yet
- The salary potential is attractive to me



- ◆ 80% agreed or strongly agreed that they “felt confident about their choice of program”
- ◆ Only 0.2% of students chose an academic focus because they “had to pick something”



ARTICULATED PATHWAYS

Tennessee Transfer Pathways (TTP) Origins

COMPLETE COLLEGE TENNESSEE ACT OF 2010

SECTION 4. Tennessee Code Annotated, Section 49-7-202 (e) (2)

It is the legislative intent that community college students who wish to earn baccalaureate degrees in the state's public higher education system be provided with clear and effective information and directions that specify curricular paths to a degree.



TTP Development Process

- Identify Baccalaureate major for prospective TTP
- Identify TBR and UT universities that offer that degree major
- Invite representatives from those institutions and from any community college with interest and appropriate course offerings to offer that TTP
- Meet face-to-face
- Outcomes: Curriculum and **four-semester CC degree map**



TTP Outcomes

- Development of 56 transfer pathways in the most frequently awarded Baccalaureate majors
- Tennessee Transfer Pathways website [<http://www.tntransferpathway.org/>]
- Agreed upon curriculum for each degree pathway
- Four Semester Associate Degree Maps (CC)
- In Progress – Four Semester Completion Maps (U)
- Cyclical process of review and revision (CQI)



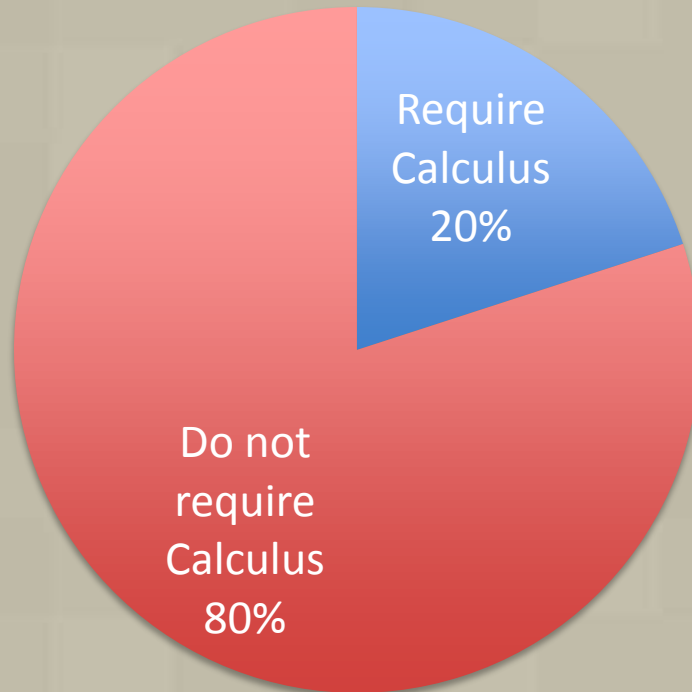
Realignment of Mathematics Pathways

- Now affirmed by the Conference Board of Mathematical Sciences
- Convenings of Mathematics Faculty
- Convenings of discipline-specific faculty/TTP teams
- Substantial basis for Corequisite Remediation Model

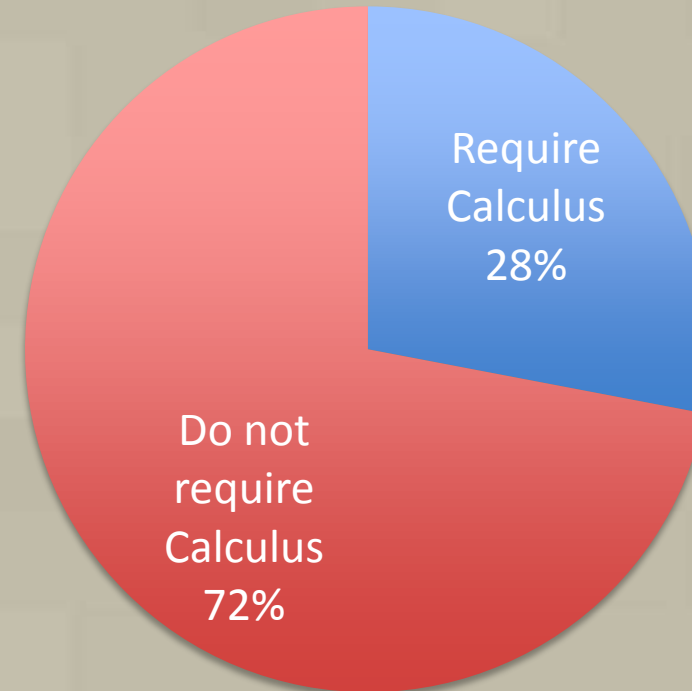


Dana Center: What is the “right math”?

2-Year College Student Enrollment into Programs of Study



4-Year College Student Enrollment into Programs of Study



Burdman, P. (2015). *Degrees of freedom: Diversifying math requirements for college readiness and graduation*. Oakland CA: Learning Works and Policy Analysis for California Education.



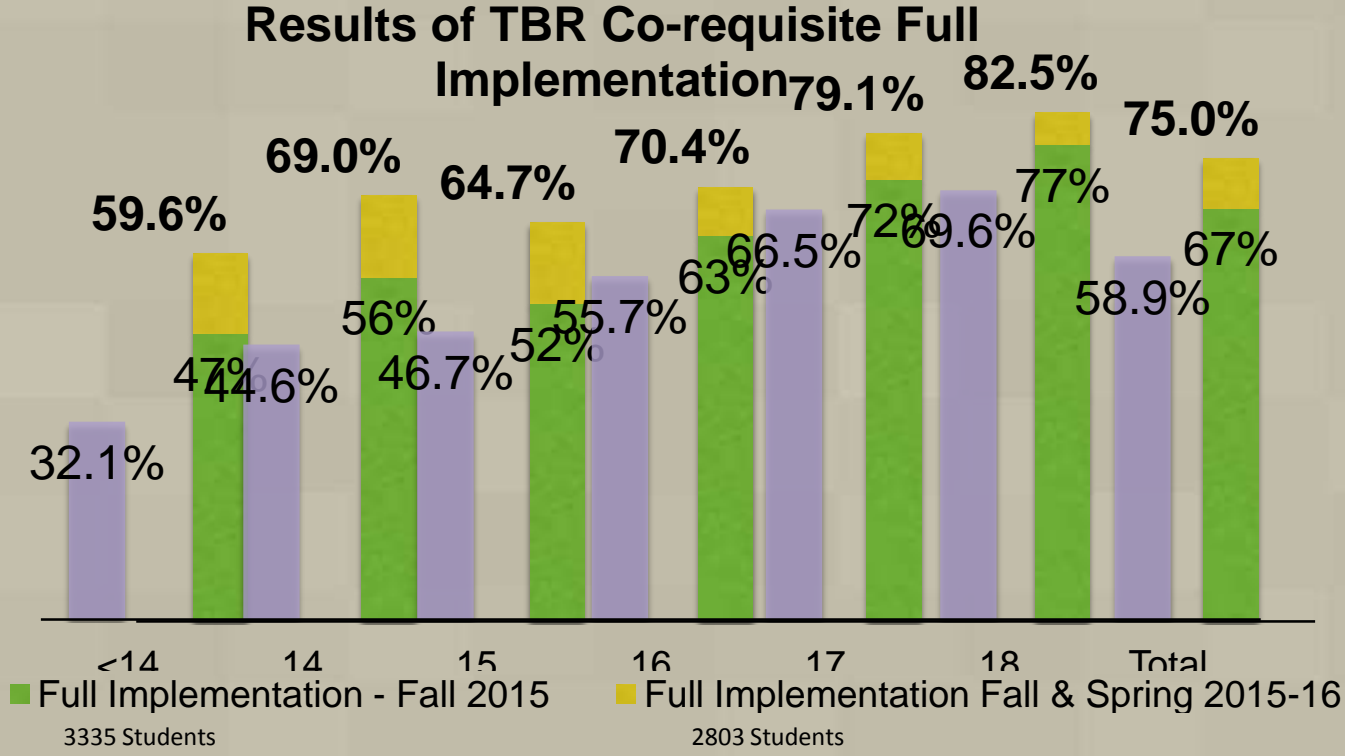
Corequisite Remediation Model

- The story our data told
- Supplementary Instruction methods used by TBR universities
- Pilots in Mathematics and Writing 2014 - 15
- Corequisite Academies
- System-wide implementation 2015 - 16



Completion of Gateway Math by ACT Sub-score

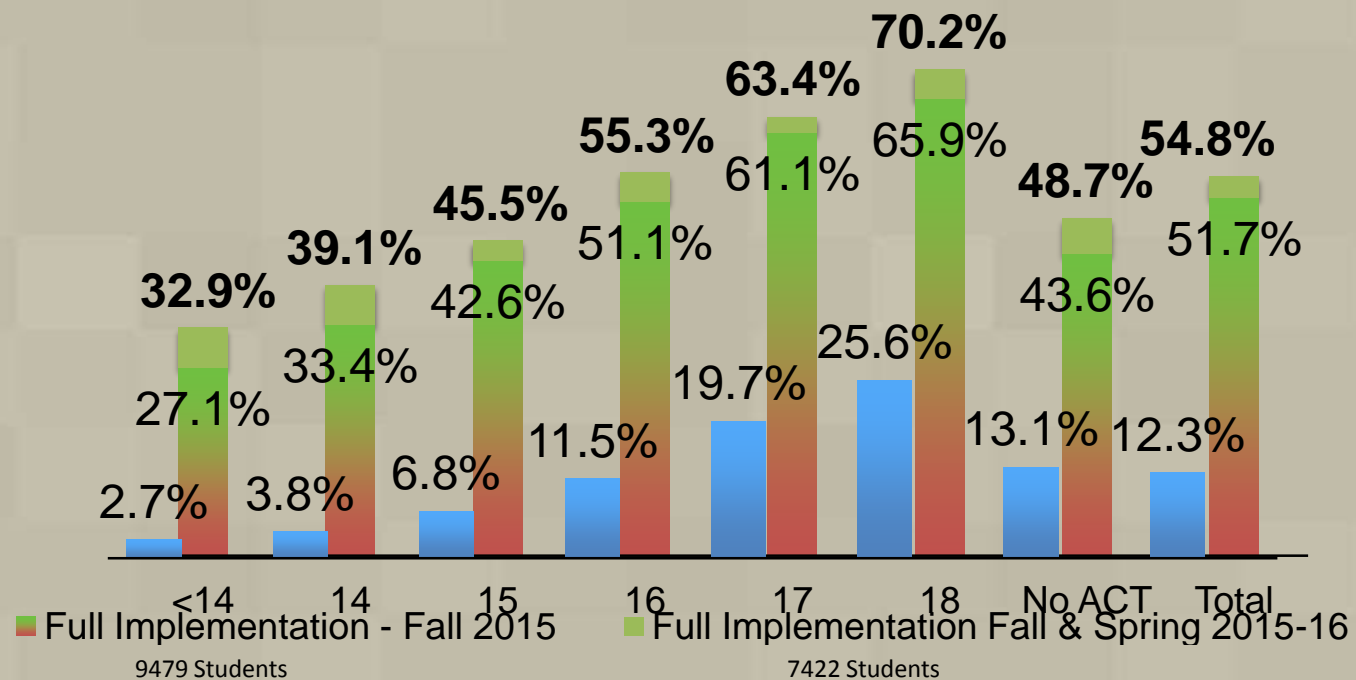
University "MATH1000" Model vs. Co-requisite Model



Completion of Gateway Math by ACT Sub-score

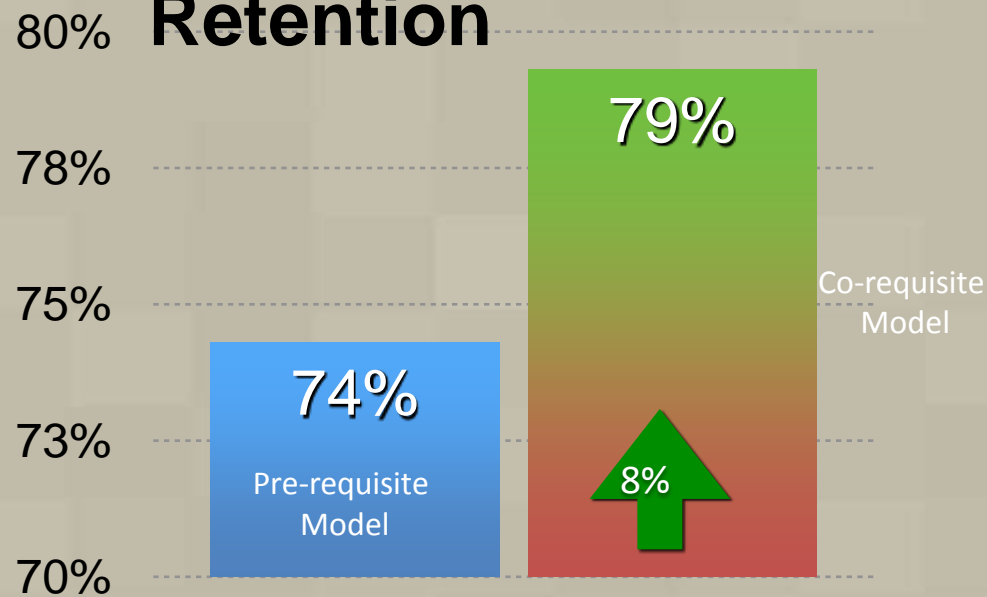
Community College Pre-requisite Model vs. Co-requisite Model

Results of TBR Co-requisite Full Implementatic

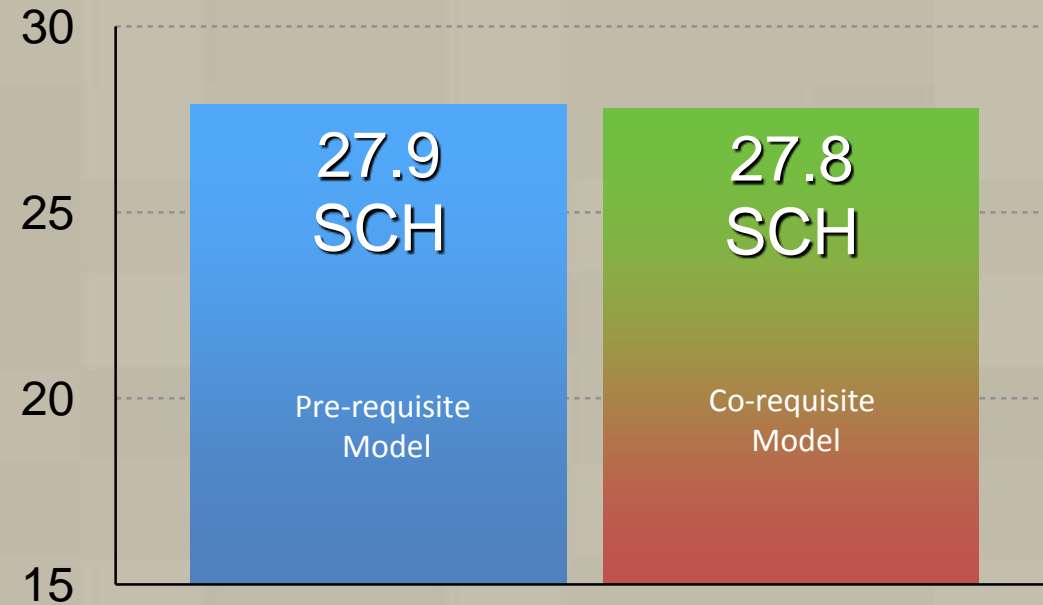


University students who passed a Math class in their 1st Year

Fall to Fall Retention

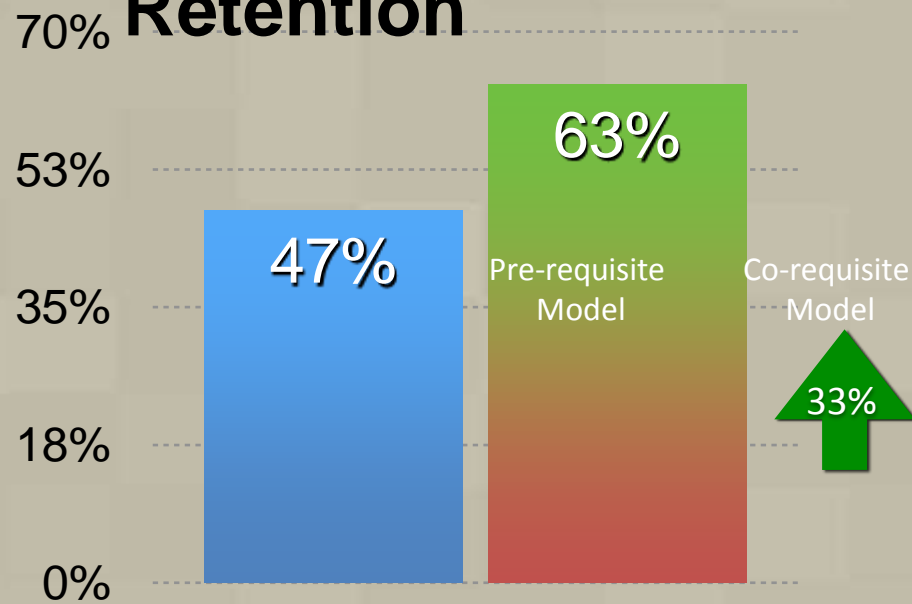


Earned Credit Hours

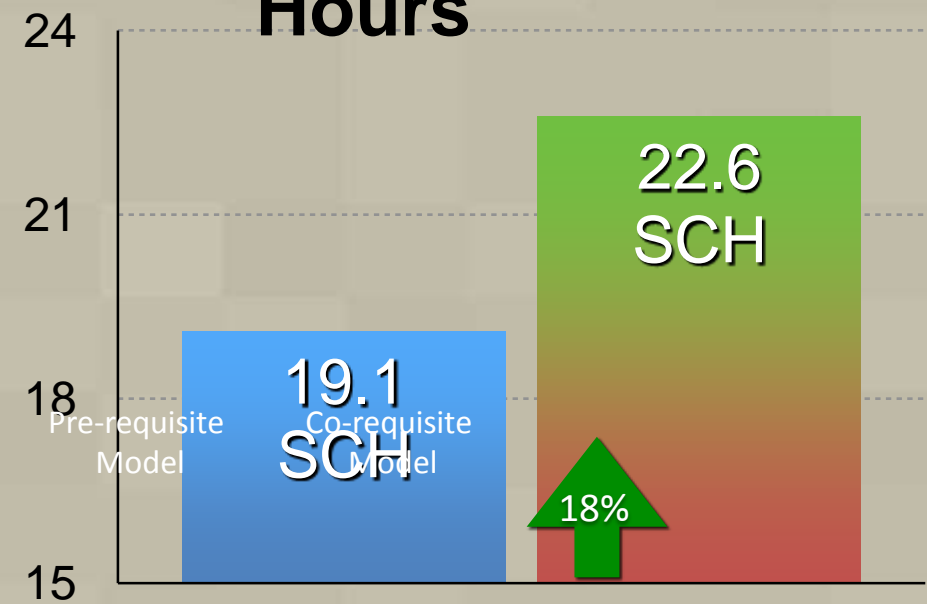


Community College students who passed a Math class in their 1st Year

Fall to Fall Retention



Earned Credit Hours



TBR Momentum Year

Creating a *productive* Academic

Mindset

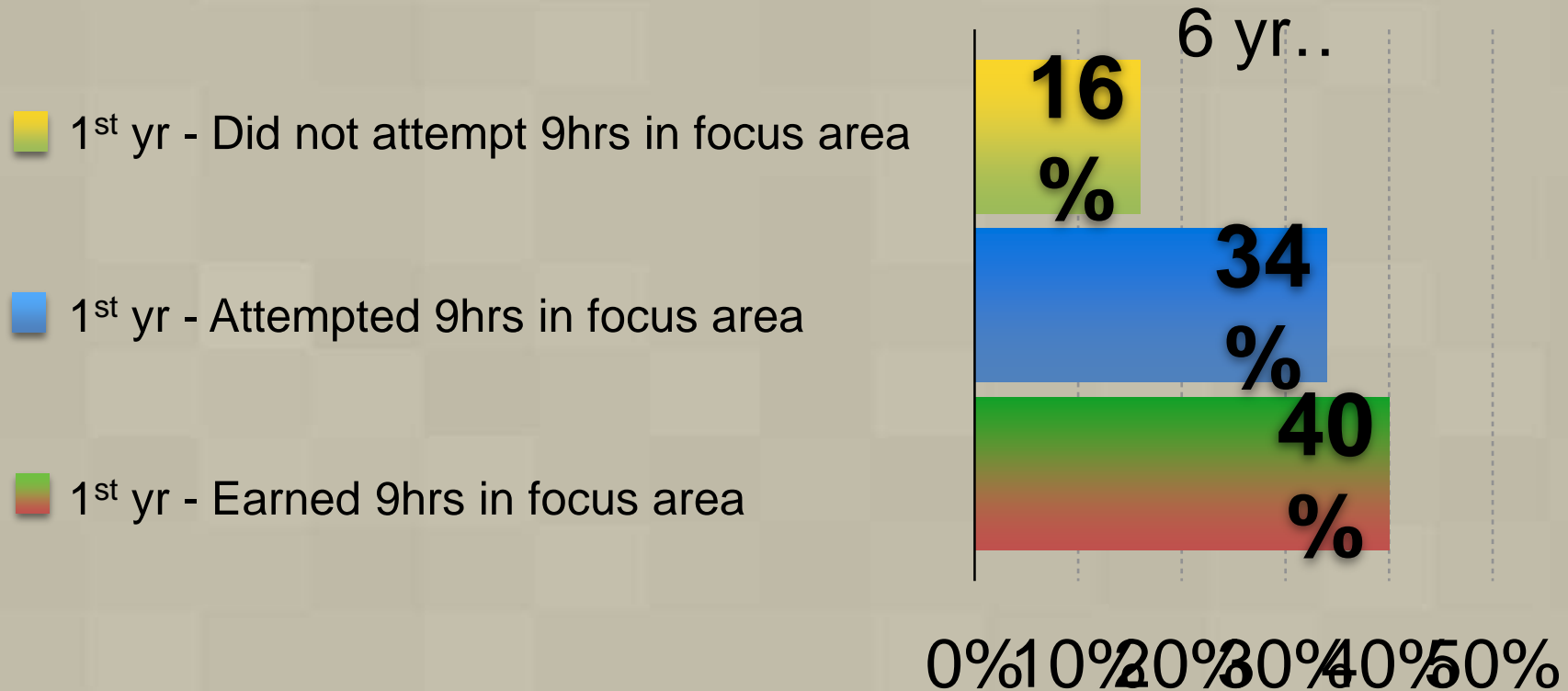
Making a *purposeful* program choice

Attempting *9 hours* in Academic Focus

Complete initial *English* and *Math*

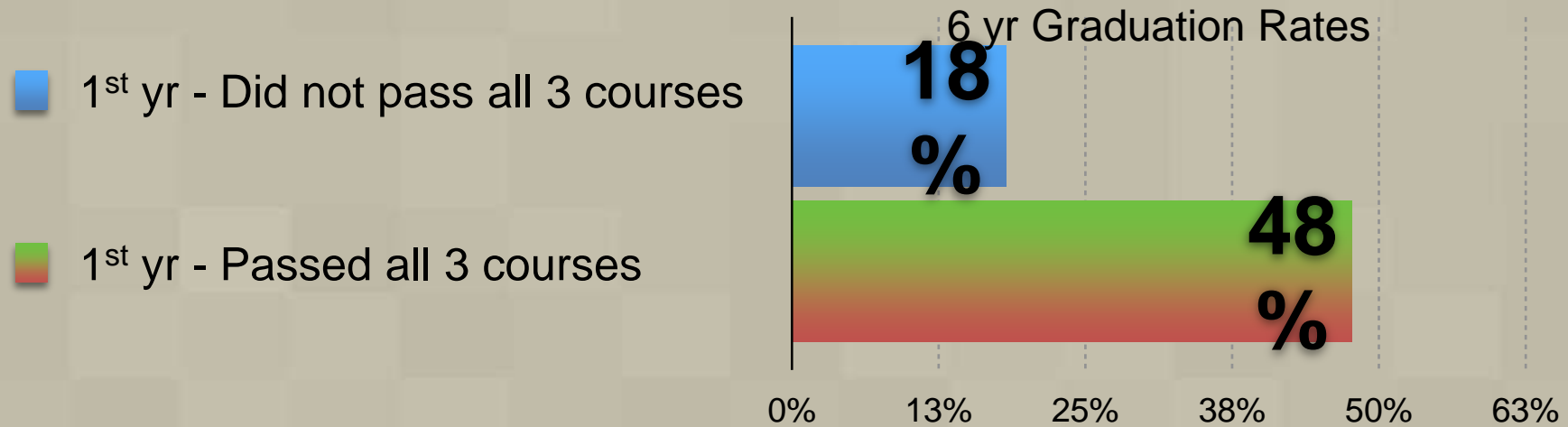
Attempting *30 hours*

The effect of course enrollments in the first year on Community College graduation rates



Graduation Rates for Community College

English and Math



Freshmen completion of of:

- English Composition I
- English Composition II
- A General Education satisfying Math Class



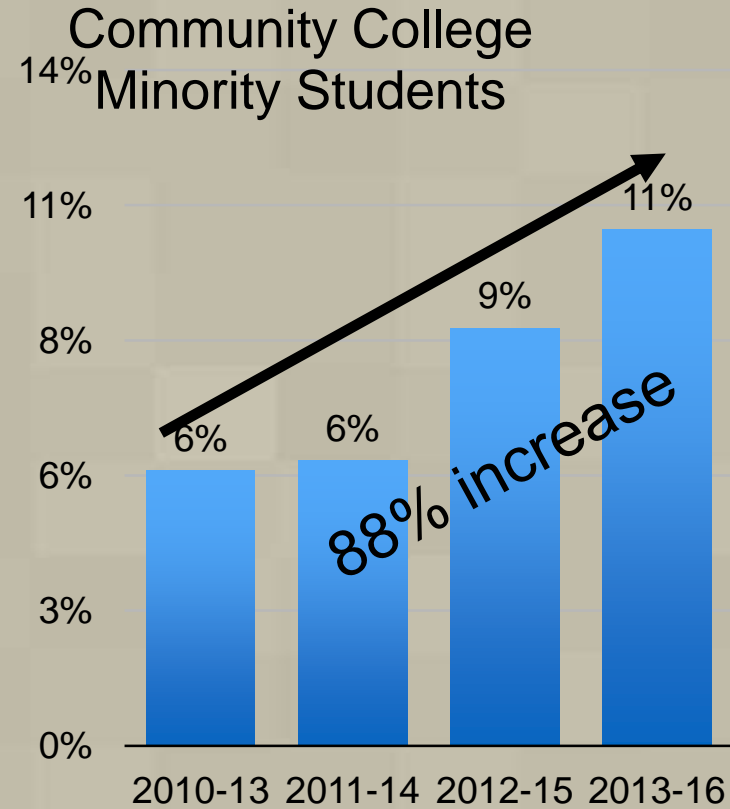
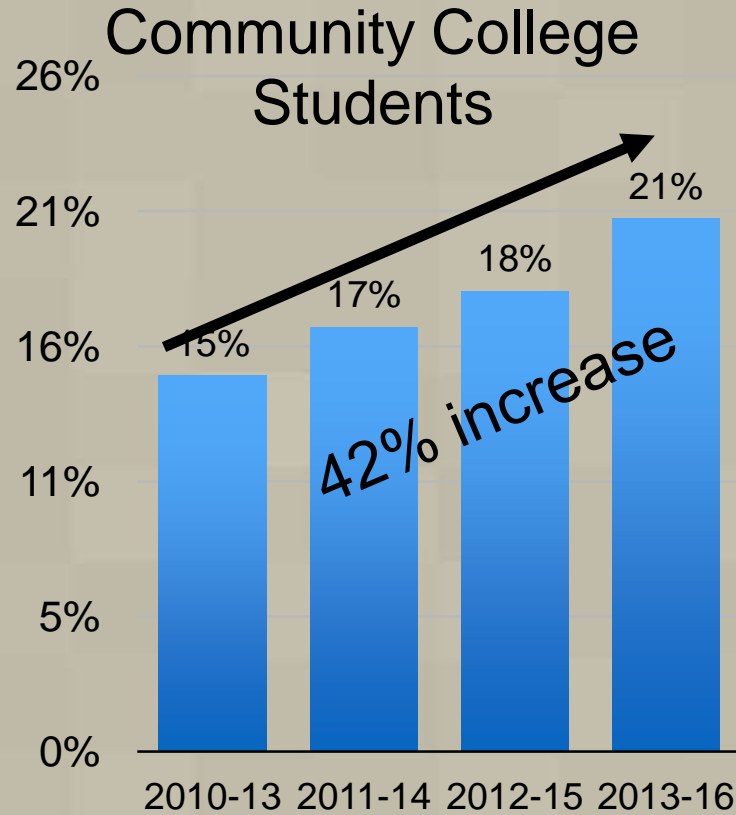
Destination...

The road goes ever and ever onward...

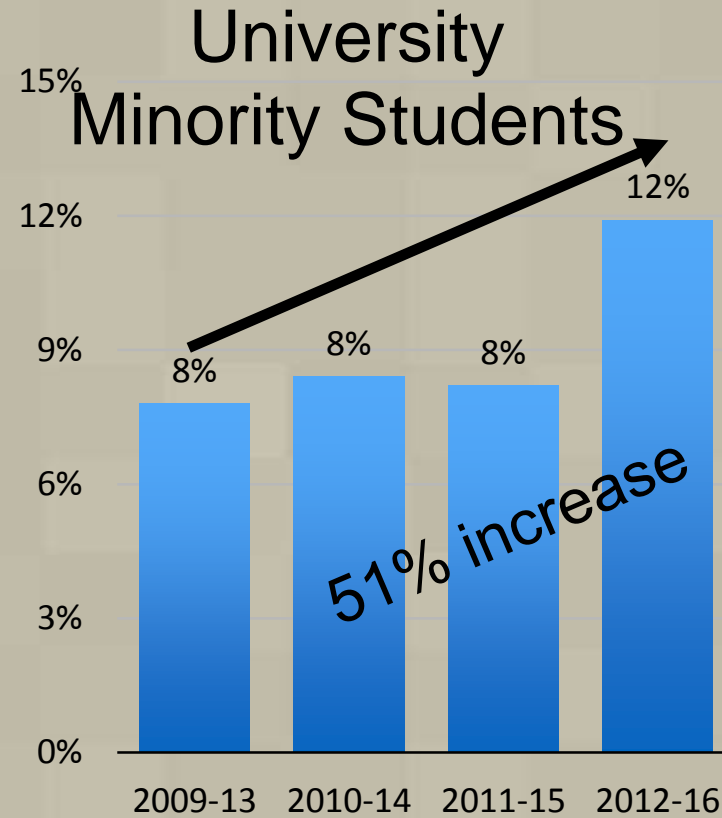
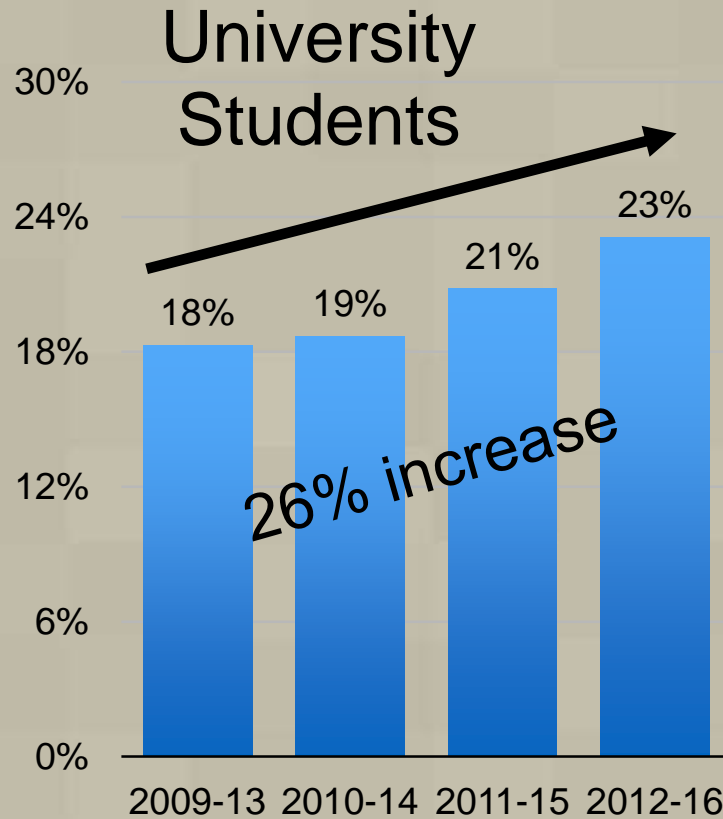
*Expanding and linking... how academic maps
contribute to Student Success*



Community College 3yr Graduation Rates



University 4yr Graduation Rates



Nursing

Associate of Applied Science

A day in the life

Nurses typically work shifts in hospitals, but they also work in medical offices. Expect to be on your feet a lot and to work at a quick pace. Yes, you will deal with blood.

Three reasons you'll love it.

1. You make a difference in people's lives.
2. You learn a lot about how the human body works.
3. Starting salaries tend to be good, and jobs are in demand.

Before you sign up, make sure you understand ...

1. You must love biology. Your interest in biology must be as strong as your desire to help people.
2. You are on your feet a lot as a nurse. It's a physical job.
3. You may deal with trauma, including bad wounds. Ask yourself if you are ready for this. Also, you will physically touch people. We know this seems obvious, but think about how comfortable you are with physical contact with patients.

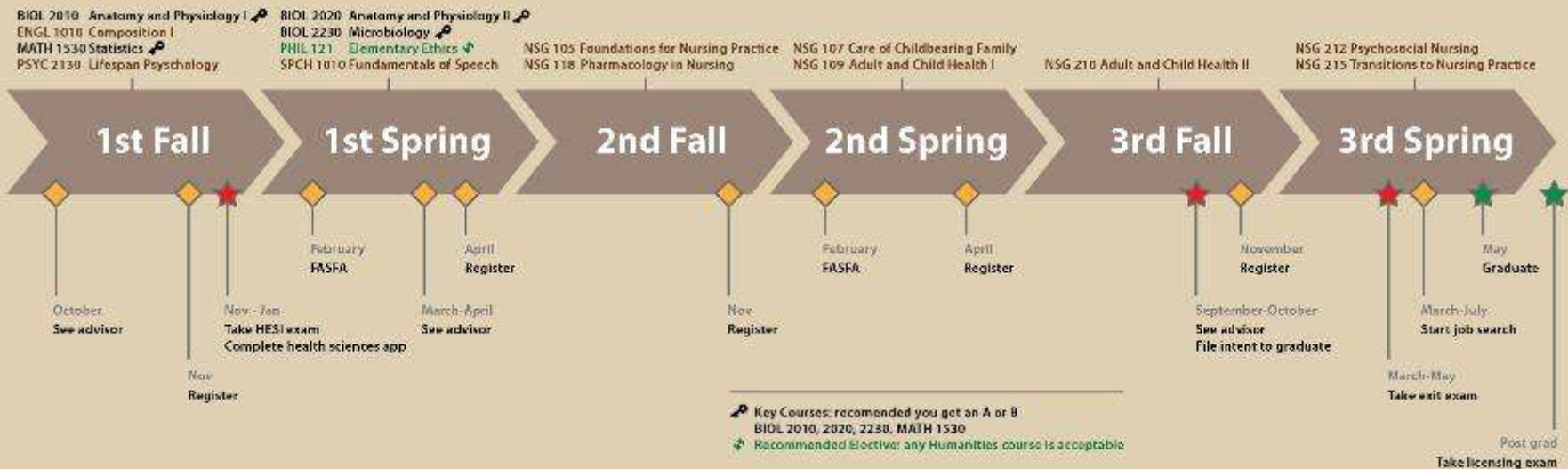
By the numbers

Entry wage: \$44,296*
 Median wage: \$56,083*
 Job placement rate: 100%**

*Tennessee Department of Labor
 **For 2013 graduates



Roane State





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<https://www.tbr.edu/academics/initiatives-academic>