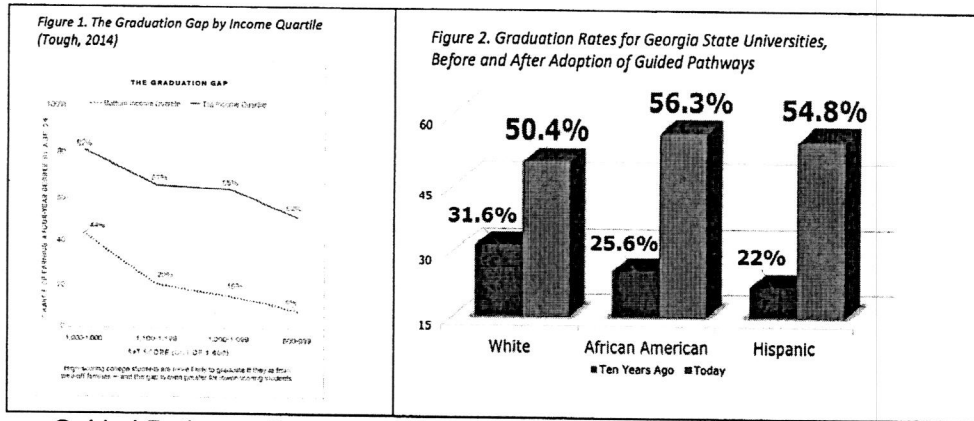


We are excited about meta-majors and guided pathways!

Our objectives: start a conversation, share the definitions and research from other colleges and universities, and involve LMC faculty in district plans related to guided pathways.



Source: *Guided Pathways Demystified*, Dr. Rob Johnstone <http://www.inquiry2improvement.com>

What are guided pathways and meta-majors?

- Guided pathways are structured, coherent programs of study that are aligned with educational goals (degree, transfer, certificate).
- Students who enter college not ready to decide on a particular major will select a group of related majors, known as a meta-major or exploratory program.
- The meta-major course maps include program maps with default or recommended sequences of courses.
- The meta-major approach provides a more structured pathway without eliminating student choice. Students can choose among programs or meta-majors; they can change programs; and they can customize their initial program map.
- But ... once they have chosen a program, if students do not explicitly alter the default map, they will be in a coherent program that leads to a defined educational credential and towards further education (e.g. Bachelor's degree).


How are pathways related to math?

- Is a student intending to pursue a major that requires calculus? If so, the student may need some combination of algebra, geometry and/or pre-calculus courses before calculus. About 30% of California Community College students take a non-statistics course (pre-calculus, calculus, math for teachers) as their transfer level course.
- Is a student intending to pursue a major that requires statistics or does not require calculus? LMC math offers accelerated options to complete statistics in one or two-semesters. About 70% of California Community College student take statistics as their transfer level course.
- Remedial algebra pathways are long (2-4 semesters before starting pre-calculus) and have high attrition rates. Unnecessarily placing a student in the remedial algebra pathway lessens the chance that student will graduate, transfer, or complete their education goal.


Typical meta-majors (broad cluster of majors):

STEM, CTE, Health Sciences, Social Sciences, Liberal Arts, Education, Business


Results from colleges and universities implementing guided pathways:

GPS SUCCESS **Georgia State University** 


- **Degree maps and intrusive advising**
- Graduation rates **up 20%** in past 10 years
- Graduation rates higher for:
 - Pell students, at **52.5%**
 - African American students, at **57.4%**
 - Hispanic students students, at **66.4%**
- More bachelor's degrees to African-Americans than any other U.S. university

GPS SUCCESS **Florida State University** 

- Since starting **degree maps**, FSU has cut the number of students graduating with excess credits in half
- Graduation rate **increased to 74%**
 - African Americans to **77%**
 - First-generation Pell students to **72%**
 - Hispanic students to more than **70%**

GPS SUCCESS **Arizona State University** 

- **eAdvisor** system boosting retention and success
- First-time, full-time **freshman retention** rates climbed to **84%**
- **91%** of all students deemed **"on track,"** up from **22%** three years before

GPS SUCCESS **CUNY ASAP Program** 

- Students grouped into **cohorts** with consolidated **block schedules**
- **Doubled** graduation rates for associate degrees
- **55%** of fall 2007 cohort earned associate degrees in 3 years

Source: Complete College America (national nonprofit) <http://completecollege.org>

References and Resources:

PBS News Hour 2014 video: <http://www.pbs.org/newshour/bb/grad-rates-double-reinvention-chicago-city-colleges/>

Redesigning America's Community College: a clearer path to student success
Thomas R. Bailey, Shanna Smith Jaggars, Davis Jenkins, 2015

<http://ccrc.tc.columbia.edu/publications/what-we-know-about-guided-pathways-packet.html>

LMC associate degrees mapped to transfer Math courses:

Statistics (Math 34)	
Administration of Justice AST Anthropology AAT Biology AS Kinesiology AAT Liberal Arts: Math and Sciences AA Psychology AAT Sociology AAT	
Precalculus, Calculus, and beyond (Math 40, 50, 60 +)	
Biology AS *calculus option for some specialties Chemistry AS Computer Science AST Engineering AS Liberal Arts: Math and Sciences AA *calculus option for some specialties Mathematics AST Physics AST	
Intermediate Algebra (Math 29 or Math 30)	
Registered Nursing AS	
Applied Calculus (Math 37) and/or Statistics (Math 34)	
Business Administration AST	
Number Systems for K-8 Education (Math 120)	
*no AA-T Liberal Studies degree yet at LMC	
Any math course (transfer level or Intermediate Algebra level)	
Appliance Service Technology AS Studio Arts AAT Art History AAT Fine Arts AA Graphic Communications AA Automotive Technology AS Business Accounting AS Business Office Administration AS Child Development AST Communication Studies AAT Drama Theatre Arts AAT Electrical Technology AS English AAT	Fire Technology AS History AAT Journalism AAT, AA Liberal Arts: Arts and Humanities AA Liberal Arts: Behavioral and Social Sciences AA Management and Supervision AS Music AAT, AA Process Technology AS Real Estate AS Recording Arts AA Travel Marketing AS Welding AS