MATH LITERACY WITHOUT A MATH PREREQUISITE

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WHAT'S GOING TO HAPPEN ...

- What is "math literacy", and why offer it?
- Our Math106 course background and details
- A sample lesson from Math106

WHAT IS "MATH LITERACY"

- A college course
- "the goal is to have the student be conversant, and show understanding"
- At the level of beginning algebra ... but better
- Content ... numerical reasoning, proportional reasoning, algebraic reasoning & functions

["New Life" project Math Literacy content handout available]

WHAT IS "MATH LITERACY" ... MORE

- Part of a national movement
- Related to Carnegie Statway™ and Quantway™, and to Dana Center "Foundations of Mathematical Reasoning" (FMR)
- Designed to be good prep for statistics and quantitative reasoning courses
- We also use it for STEM-bound students ... if needed

WHY OFFER MATH LITERACY?

- Think about why your college should offer a Math Literacy course
- Write a couple of notes down
- Then ... discuss the ideas with a neighbor or two

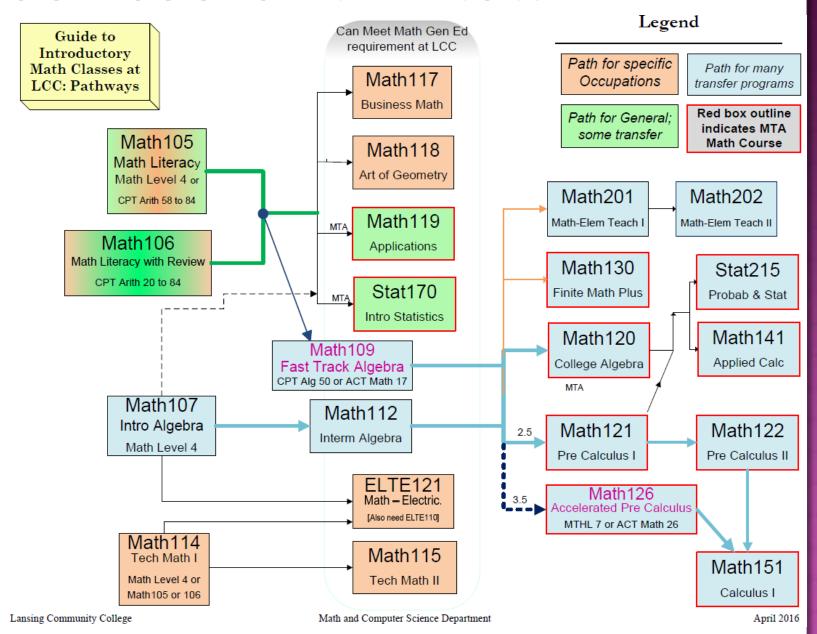
OUR MATH 106 COURSE

- We already had Math105 (Mathematical Literacy)
- LCC discontinued our pre-algebra course (Summer 2016) due to financial aid issues
- So ... LCC had no course for students not qualified for Math Lit or beginning algebra
- Math106 "Math Literacy with Review" was designed for students placing at pre-algebra

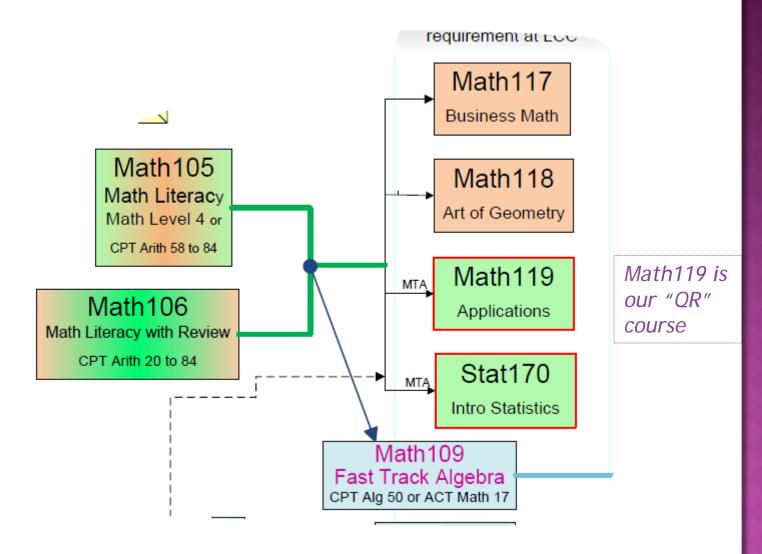
OUR MATH106 COURSE ... MORE

- We had already dropped our basic arithmetic class (about 15 years ago)
- Until this year, we did not have a course for students placing at that level
- Math106 was designed to fill that void (students who 'needed' arithmetic)

OUR COURSE MAP NOW



HOW MATH106 FITS ...



AFTER PASSING MATH 106 ...

- Many students will take Math119 ("Math: Applications for Living") [QR]
- Many students will take Stat170 ("Intro Statistics")
- Students can also "go STEM" ... take Math109 ("Fast Track Algebra")
- Math106 also leads to business math, technical math, and the 'art of geometry' course

MATH106 PREREQUISITES

- Prereq: Math Level below readiness for beginning algebra [Accuplacer Arithmetic below 84]
- Prereq: "College ready" reading skills (Level 5 at LCC) OR Concurrent Reading170
- Prereq: Writing skills "level 2" (quite low)

FALL 2016 "LAUNCH"

Math105 ... 9 sections about 180 students

•Math106 ... 9 sections about 225 students

Seat max: 25 students

 Both courses use the same book (\$68 to \$84 printed book and access card)

OVERVIEW OF MATH 106 STUDENTS

- About 50% have very low placement test scores (<39 on Accuplacer Arithmetic)
- About 95% have a higher 'writing level' than required ... half at 'college ready'
- In Math105, about 60% are 'beginning algebra ready'

INSTRUCTIONAL DESIGN

- Math105 ('regular') meets 4 hours per week
 ... a 4 credit class; one instructor
- Math106 ('with review') meets 6 hours per week ... a 6 credit class; one instructor PLUS one embedded tutor (professional tutor)
- Bi-weekly meetings for faculty (instructors and tutors) from both courses

EMBEDDED TUTOR MODEL

- Origin in the Structured Learning Assistance (SLA) model
- Professional tutor (bachelor's degree, often in mathematics)
- Tutor Training PLUS specialized training
- Work with the instructor during class time
- Scheduled help sessions outside of class
- Individual student follow-up

SAMPLE LESSON

 This page launches a sample lesson as done in Math106

Math106 clifford section 2.1 class

WRAP UP

- Our emails are on the handout
- We welcome your further questions ... or visits

• THANKS for being here!