NEW LIFE PROJECT: THE COURSES

Workshop at AMATYC conference
November 9, 2012 session W08

Jack Rotman, and DMC team
(DMC ⇔ Developmental Mathematics Committee)

OUTLINE OF WORKSHOP

- Introductions (who we are)
- Overview of New Life Model
- Mathematical Literacy for College Students (MLCS): Purposes; List of learning outcomes; Sample Lessons
- Algebraic Literacy (AL): Purposes; List of learning outcomes; Sample lesson
- Wrap-up

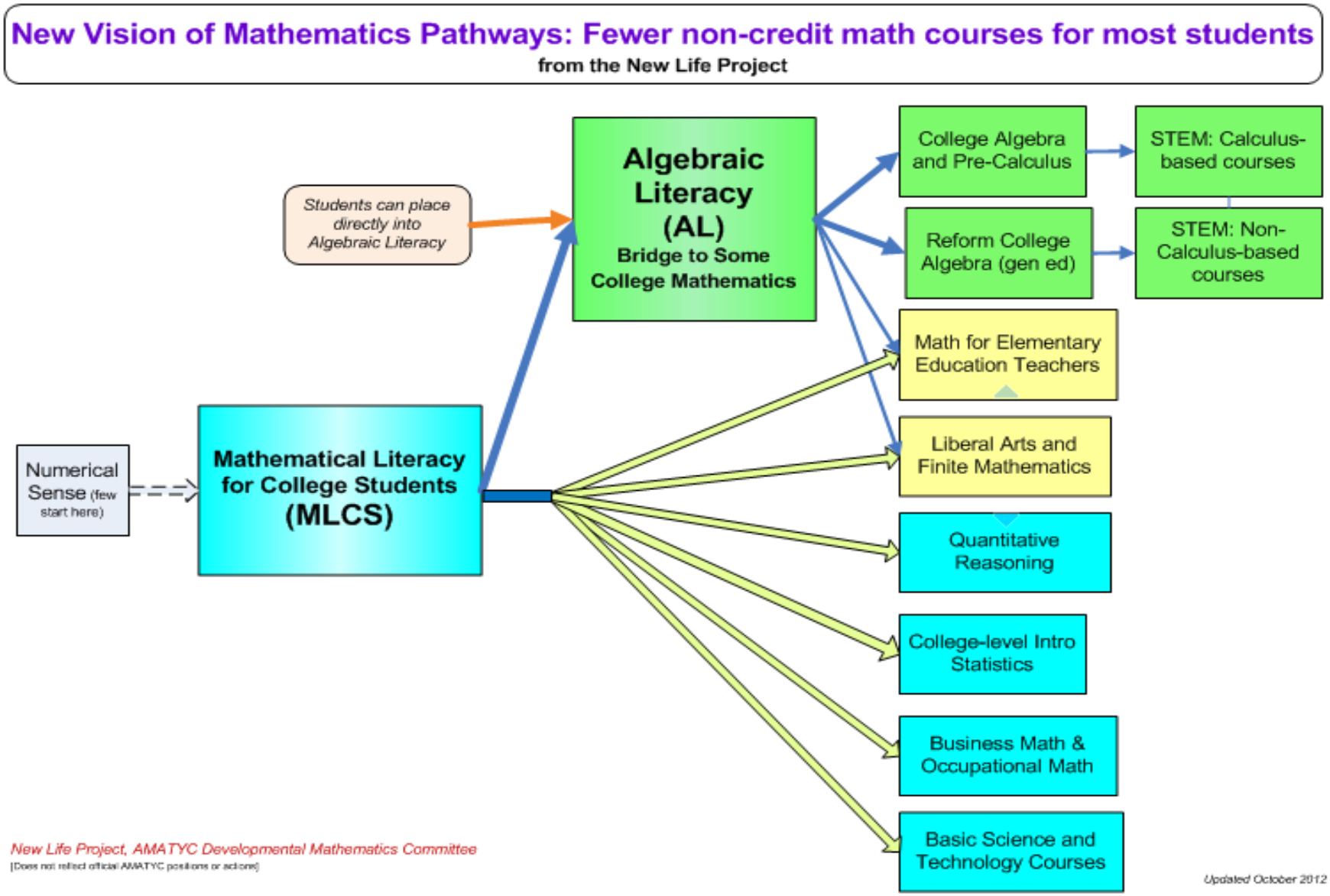
INTRODUCTIONS

- Jack Rotman, New Life Project Leader
- "New Life" is a Subcommittee of the DMC
- Subcommittee members helping today:
  Julie Phelps* **Janet Teeguarden***
  Kathy Almy* **Robert Cantin**
  Brian Mercer
  * indicates part of original design team *
- Friends helping today
  Dayna Ford **Billye Cheek**
  (from Grayson County College, TX)

OVERVIEW OF NEW LIFE MODEL

- Grounded in four legacies: (1) both AMATYC Crossroads (2) College Algebra reform (MAA); (3) Partner discipline needs (MAA); (4) Numeracy & QL movements
- Focused on needs of community college students
- Important mathematics for all students
- Fewer math courses for almost all students

OVERVIEW OF NEW LIFE MODEL: VISUAL



MORE THAN NEW CONTENT

- This workshop will focus on the content of MLCS and AL
- The New Life model calls for diverse and deliberate methods of teaching …
- and the model calls for us to build student success capabilities concurrently …
- along with building the profession (networking, validating, researching, etc)

COURSE OUTCOMES

- Documents from New Life work teams
- Each course has 4 goal areas connected to student needs
- Course structure is not intended to be based on the 4 goal areas
- Each course has more outcomes than would normally fit in a class: local adaptations are needed
- Publishers are involved with book projects

MLCS: PURPOSES

- Alternative to Beginning Algebra
- Very limited prerequisites to MLCS
- **Focus on general education**
- Prepares students for gen ed math courses such as quantitative reasoning, intro statistics, and liberal arts math; and …
- Prepares students for Algebraic Literacy (2nd course) or intermediate algebra

<< Get MLCS goals & outcomes document>>

SMALL GROUP ACTIVITY 1 *(12 MINUTES)*

- Select one goal (such as Functions)
- Look at outcome statements in detail for 5 minutes (individually or group)
- Identify as a group how these outcomes differ in general ways from your beginning algebra course
- List two questions your group has about the general intent of the outcomes in this goal

REPORTING OUT: MLCS OUTCOMES

- How do the MLCS outcomes differ from beginning algebra?

- Questions on general intent?

SMALL GROUP ACTIVITY 2 *(12 MINUTES)*

- Sample of MLCS curriculum – Math Lit
- See lesson 2.12
  3 copies at each table; also available online at

http://dm-live.wikispaces.com/workshop2012

- Read through the lessons *5 minutes*
- Discuss how this differs from traditional class

REPORTING OUT: MATH LIT SAMPLES

- How do the Math Lit lessons differ from traditional algebra course?

- Questions which arose in conversation?

SMALL GROUP ACTIVITY 3 *(12 MINUTES)*

- Sample of MLCS curriculum – Quantway
- See lesson 4.1.3
  3 copies at each table; also available online at

http://dm-live.wikispaces.com/workshop2012

- Read through the lesson *5 minutes*
- Discuss how this differs from traditional class

REPORTING OUT: QUANTWAY SAMPLE

- How does the Quantway lesson differ from traditional algebra course?

- Questions which arose in conversation?

AL: PURPOSES

- Alternative to Intermediate Algebra
- Prerequisite: from MLCS or beginning algebra
- **Blend of general education and STEM**
- Prepares students for STEM-type math courses and general science; and …
- Bridge to pre-calculus courses

<< Get AL goals & outcomes document>>

SMALL GROUP ACTIVITY 4 *(12 MINUTES)*

- **Select one goal (such as Functions)**
- Look at outcome statements in detail for 5 minutes (individually or group)
- Identify as a group how these outcomes differ in general ways from your intermediate algebra course
- List two questions your group has about the general intent of the outcomes in this goal

REPORTING OUT: AL OUTCOMES

- How do the AL outcomes differ from intermediate algebra?

- Questions on general intent?

SMALL GROUP ACTIVITY 5 *(12 MINUTES)*

- Sample of AL curriculum – draft document
- See lesson 4.x

  3 copies at each table; also available online at

http://dm-live.wikispaces.com/workshop2012

- Read through the lessons *5 minutes*
- Discuss how this differs from traditional class

REPORTING OUT: AL SAMPLE (DRAFT)

- How does the AL lesson differ from traditional algebra course?

- Other questions that arose?

WRAPPING UP

- Talk with one of us about doing New Life at your college
- Join the online community (http://dm-live.wikispaces.com)
- Network with other faculty and colleges in your state and region
- Email Jack Rotman at rotmanj@lcc.edu