



# Math Multimedia Learning Center (MMLC) Redesign

A mastery-based pathway to success

# What is the MMLC?

- Individualized Math learning
- Arithmetic to Intermediate Algebra
- Attend class once a week
- Students receive individual attention from instructor
- Center is open Mon – Sat.
- Tutoring available, including 1-1 tutoring

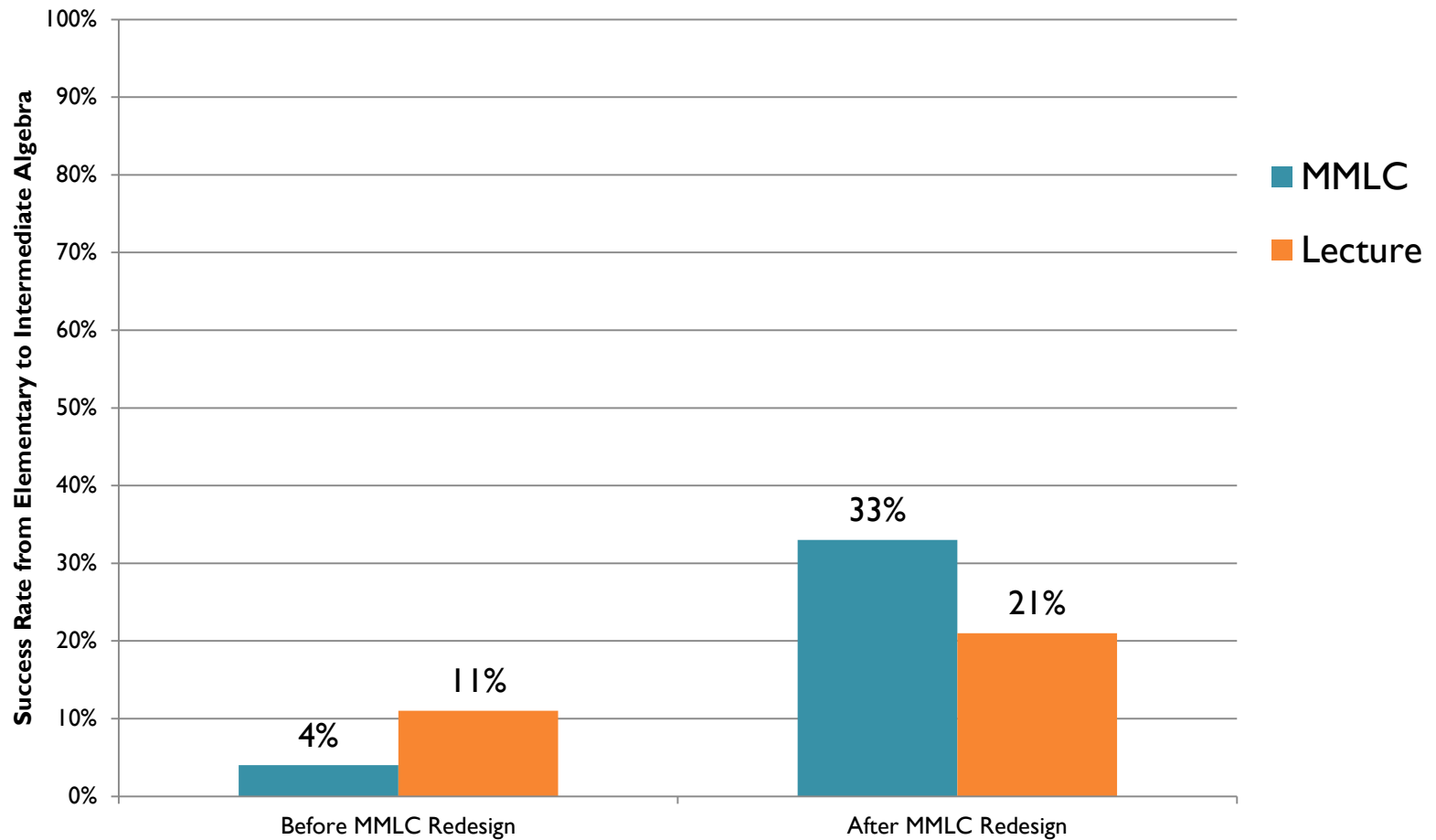
# Aspects of 2013 Redesign

- Mastery based class
  - Homework/quizzes 90% to pass
  - Exams 80% to pass
- Attendance mandatory
- Students meet with instructor each week

## Continued feature

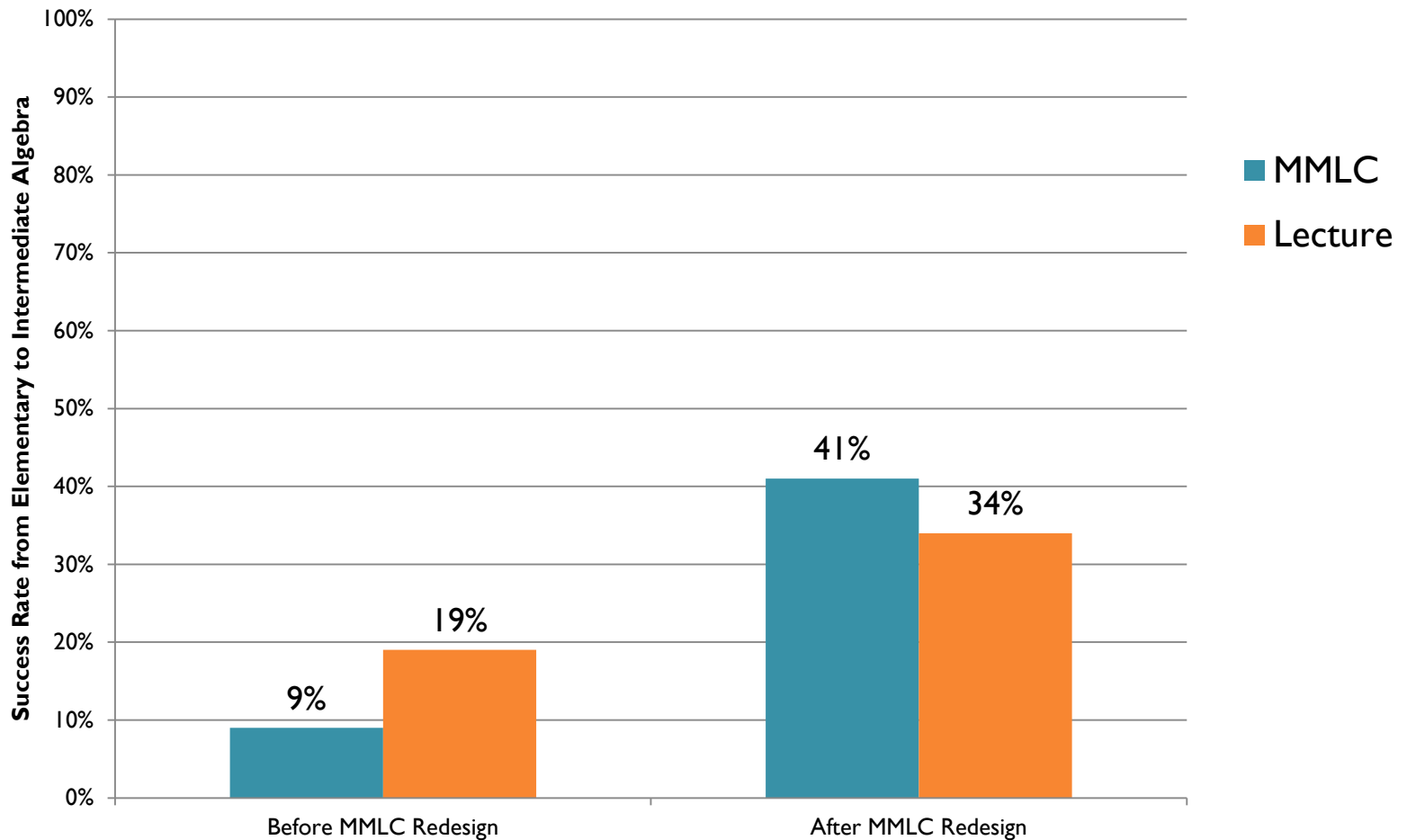
- Acceleration
  - Students can complete more than one class per semester

# Success with Under-Represented Groups: African American Students



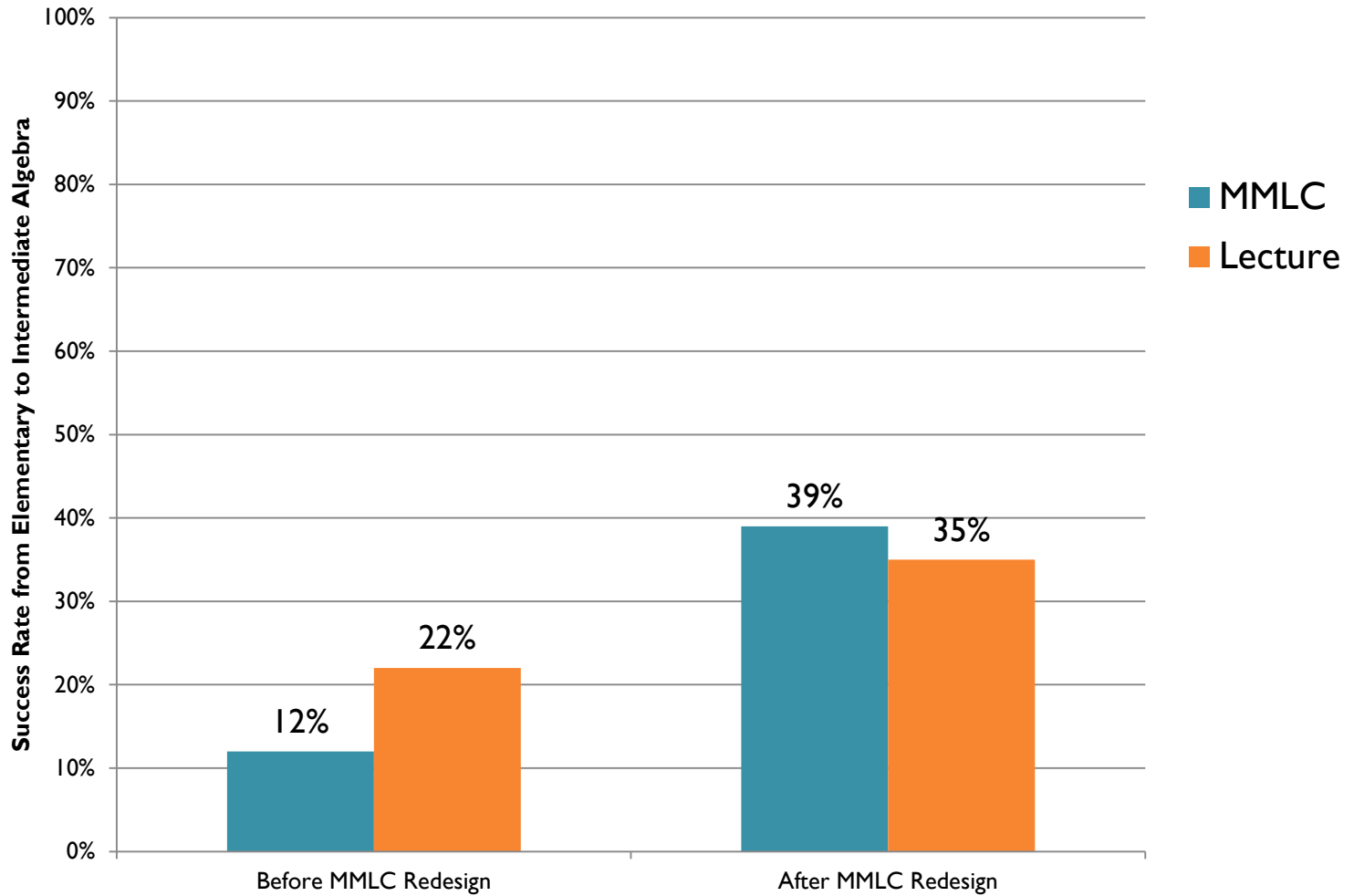
\* Pipeline data

# Success with Under-Represented Groups: Hispanic/Latino Students



\* Pipeline data

# Overall Success



\* Pipeline data

# Successful Key Agents

- **Mastery**
  - Students must master subject matter before moving on
  - Reduced gaps in learning
- **Personalized student interaction**
  - Instructors meet with every student each class period
  - Time to connect with students
  - Students feel supported

# Program Expansion

## MMLC at Natomas Center

- Increases Participation by ~18% percent

## Considerations for Further Scaling

- Resources
  - Facilities, Equipment, Staffing, FTE, etc.
- Diverse learning styles & needs
  - Some students prefer a traditional class environment
  - Some students are not tech savvy
- Culture change

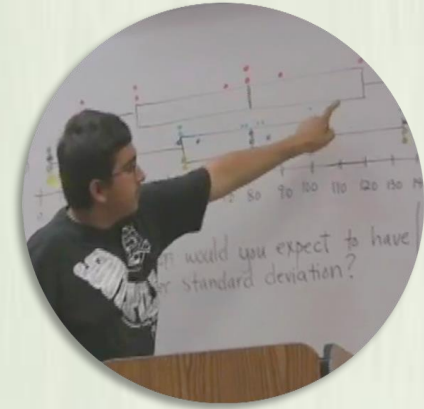




**Carnegie Foundation**  
for the Advancement of Teaching

# Statway

Michelle Brock  
ARC Mathematics



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Statway™

A red starburst shape containing the text "College Math Credit" in white.

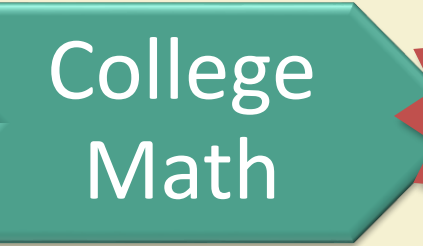
College  
Math  
Credit

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Elem Alg

A teal arrow pointing to the right, containing the text "Int Alg" in white.

Int Alg

A teal arrow pointing to the right, containing the text "College Math" in white.

College  
Math

A red starburst shape containing the text "College Math Credit" in white.

College  
Math  
Credit

A long blue arrow pointing to the right, serving as a timeline axis.

Semester  
1

1

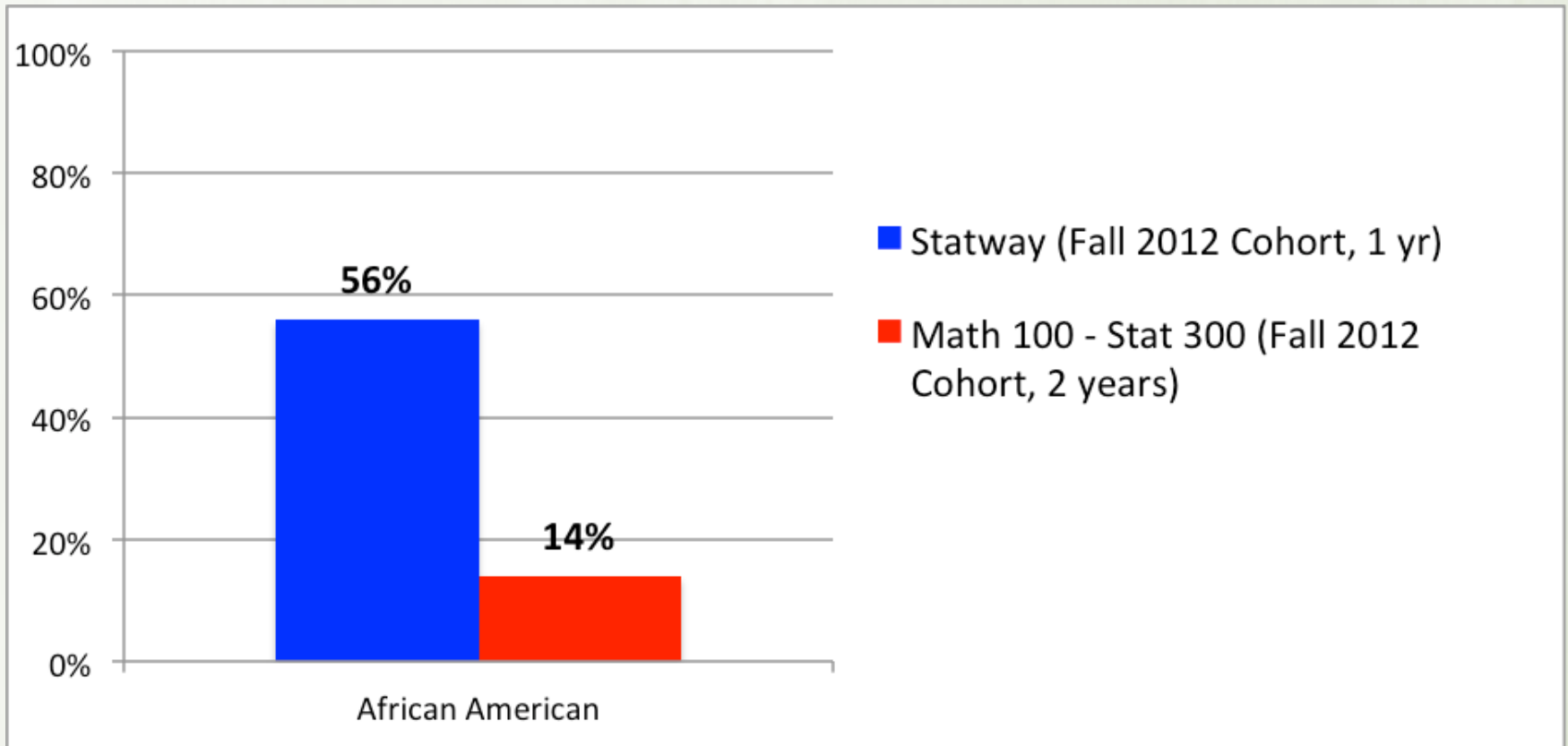
Semester  
2

2

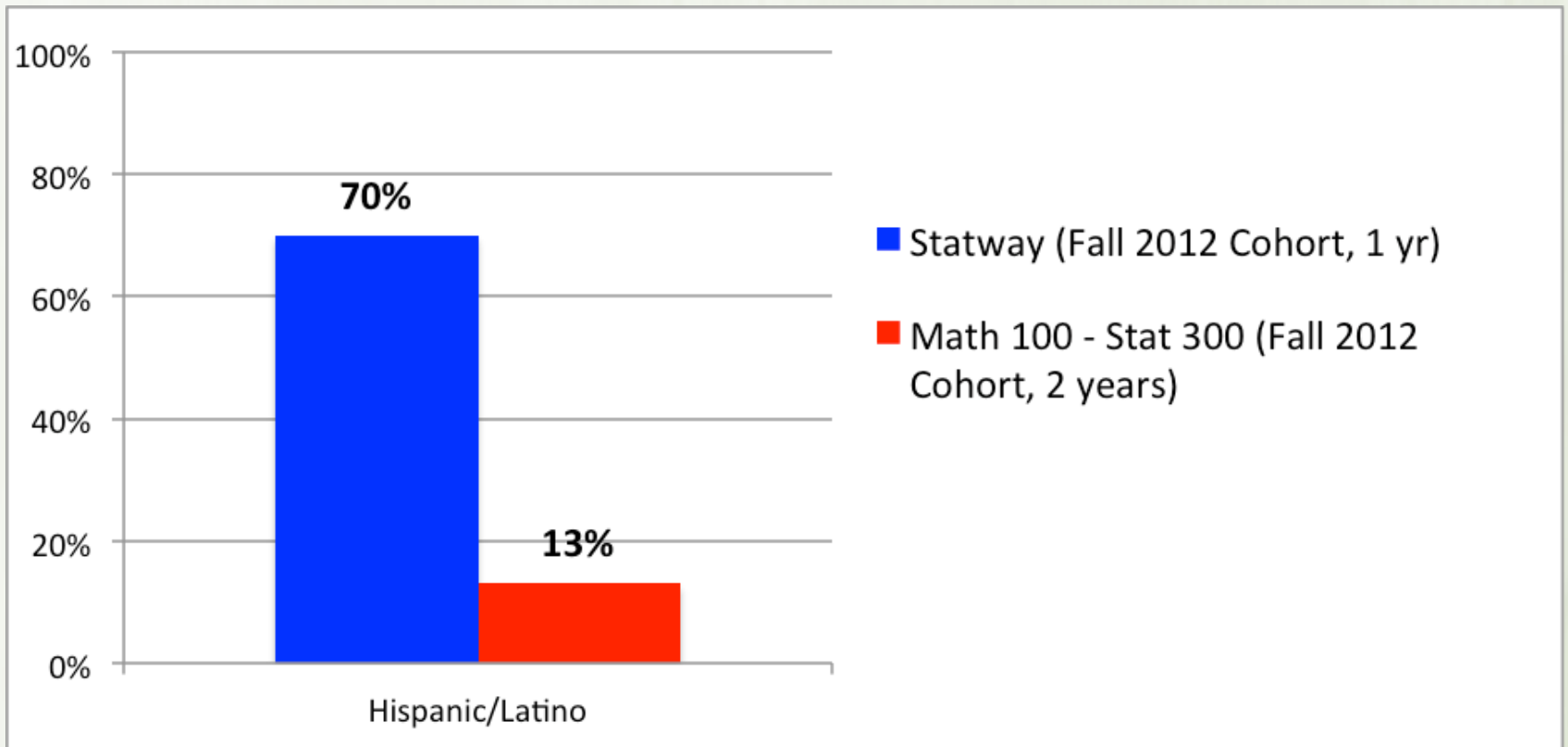
Semester  
3

3

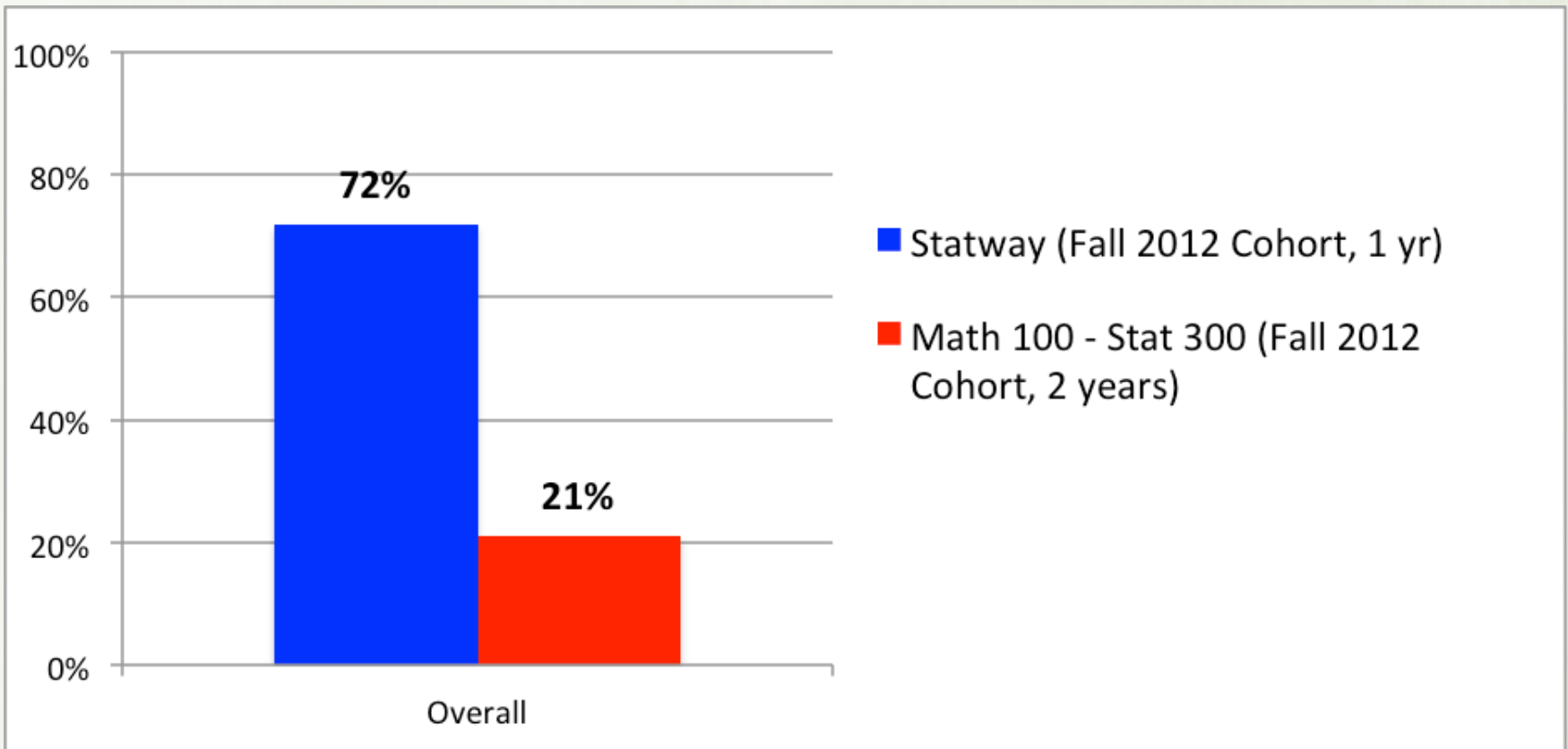
# Statway™ Success with Under-Represented Groups: African American Students



# Statway™ Success with Under-Represented Groups: Hispanic/Latino Students

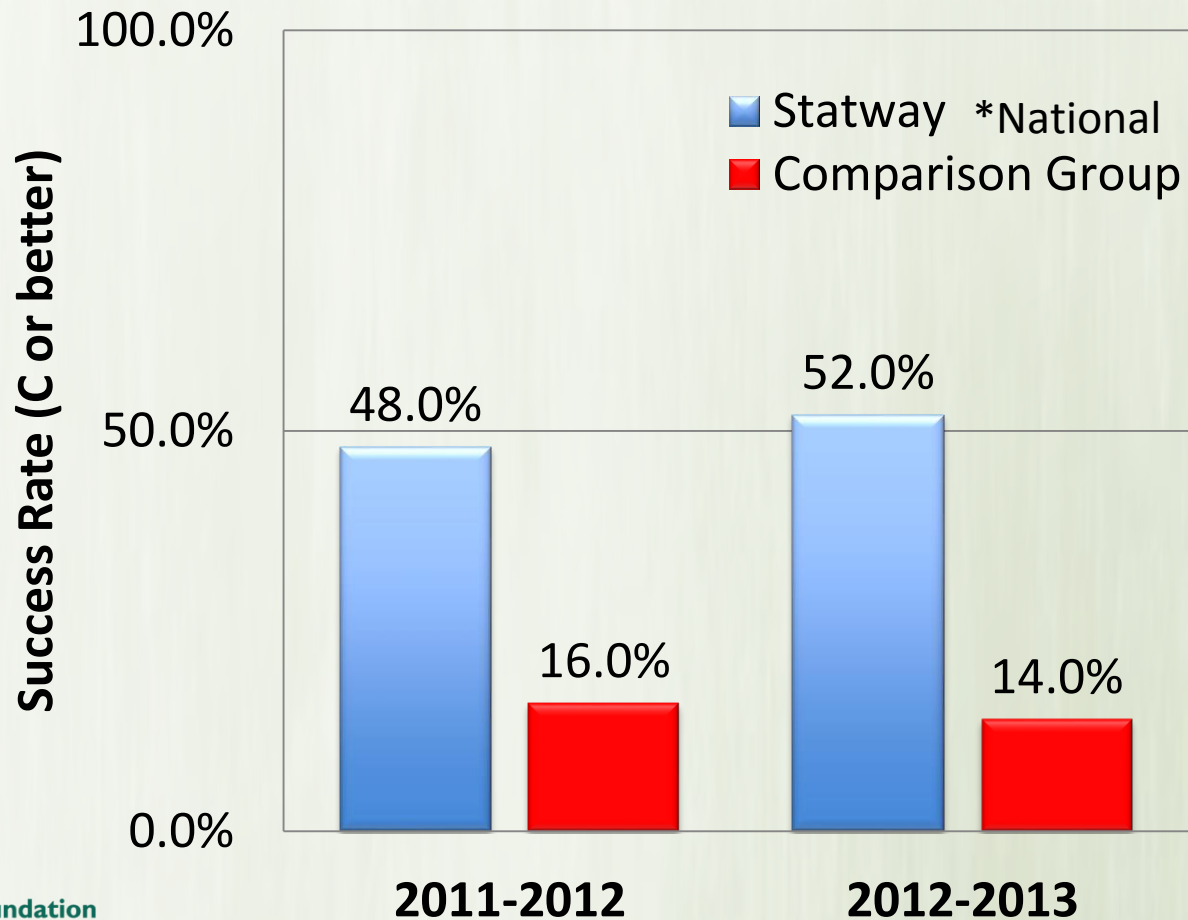


# Statway™ Success Overall

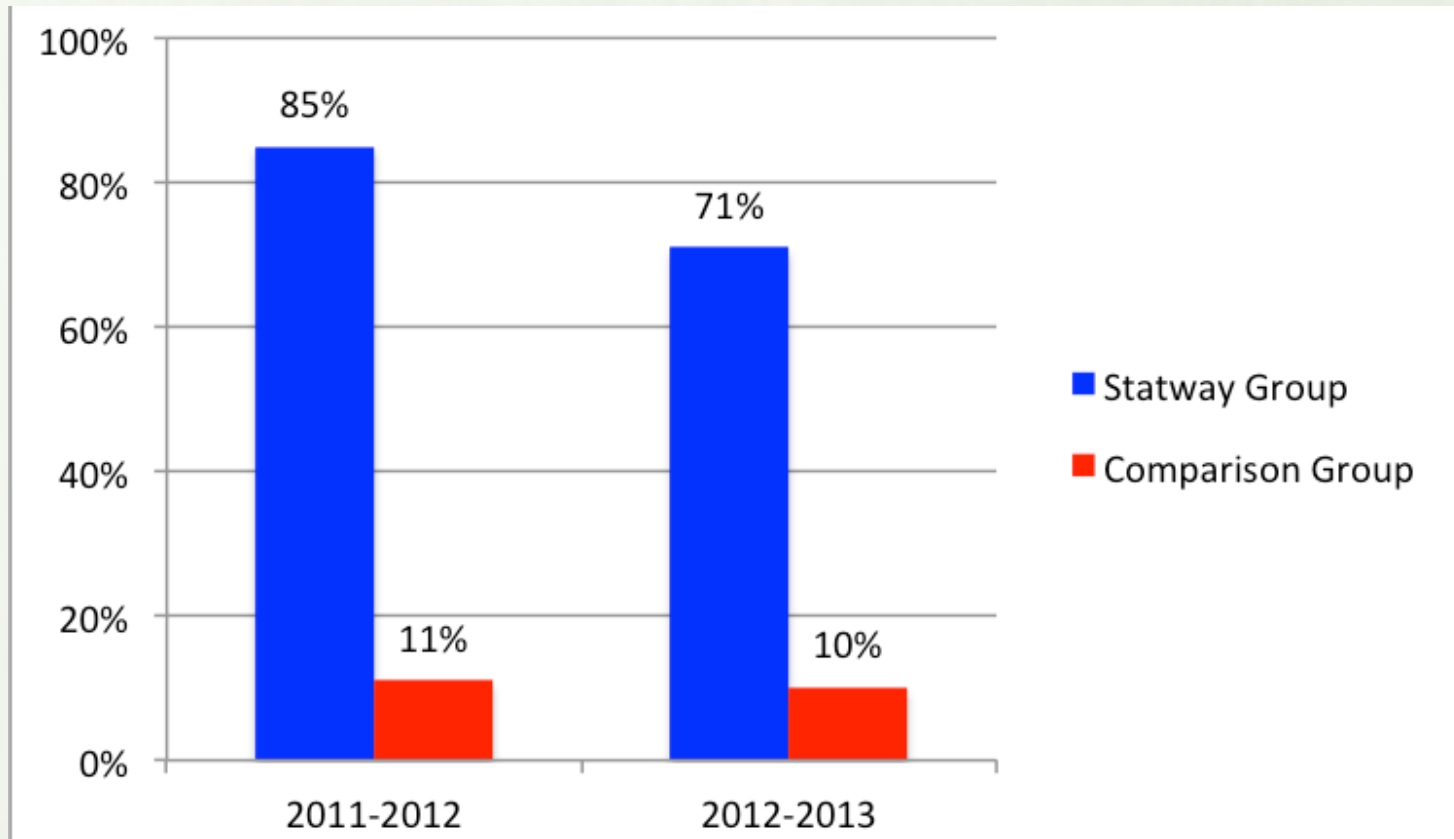


# Statway™ Success

## \* Nationwide



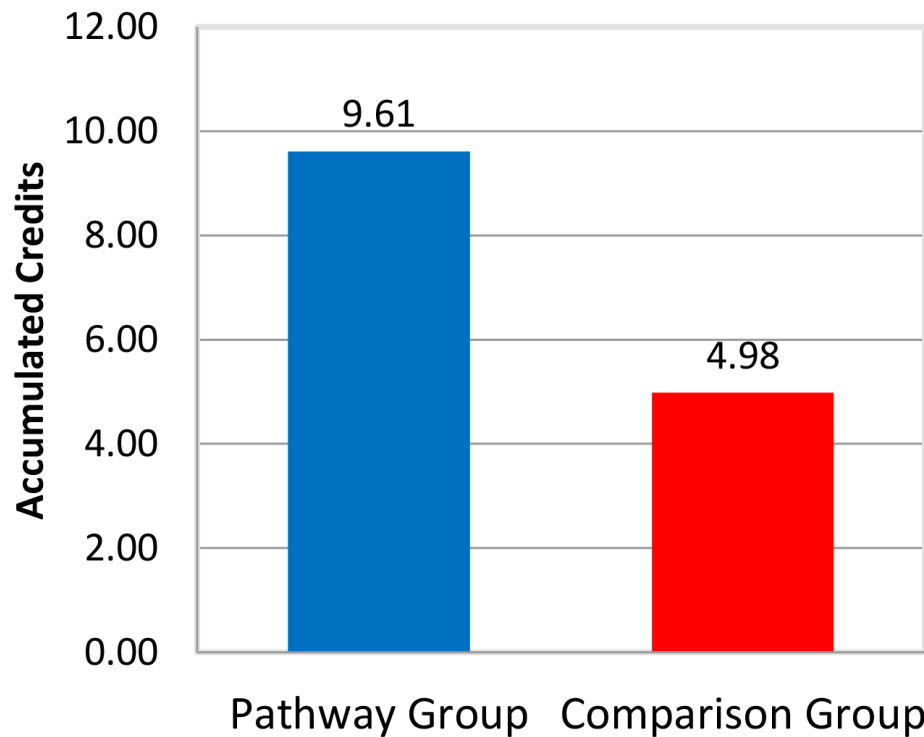
# Statway™ Success Comparative Data



# Statway™ Success

## The Story Doesn't End There...

**Credits Accumulated in Following Academic Year  
American River College**





# Keys to Statway™ Success

- Curriculum
  - Productive Struggle
  - Explicit Connections
  - Deliberate Practice
- Productive Persistence
- Faculty Training

# Keys to Statway™ Success

## ARC

- Orientation Meetings
- 2 Semester Cohorts
- Beacon Tutors
- Support from Counselors
- Campus Support

# Considerations for Scaling Statway™

- Articulation
  - CSU through Spring 2016
  - UC
    - Submitting for IGETC this fall
  - Transfer Degrees
    - C-ID
- Bridge Course

# Considerations for Scaling Statway™

## Resources:

- Coordination
- Faculty to teach
- Instructional Aid(s)
- Student tutors
- More space

# Student Voices

