

A JEM of a Program:



Supporting Math Advancement

Monday, July 17, 2023

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Today's Goals

1. Learn how GEAR UP 4 LA's support of and involvement with, JEM has progressed over time.
2. Explore how GEAR UP 4 LA's model might enhance your math support programs.
3. Examine results of a quasi-experimental evaluation of JEM participation.



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Agenda

1. **Introductions and context**
2. **JEM: Why, What and How**
3. **Engaging and supporting students**
4. **Our results**
5. **Q & A**



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Please stand up if

1. You serve primarily rural communities.
2. You serve primarily urban communities.
3. You offer academic enrichment programs in your grant.
4. You provide a math enrichment program.



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Our GU4LA Context/Why Math

99%

Title I

93%

Latinx

42%

English Ready (2022)

28%

Math Ready (2022)



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Jaime Escalante Mathematics (JEM): Why & What

Why:

- Local need
- Break the fear of Math
- Enhance Math Skills

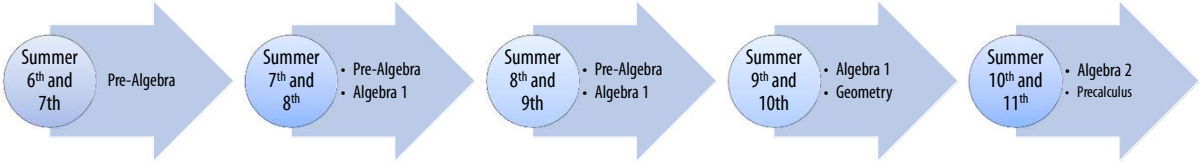
What:

- A math program that takes a year's worth of math and condenses it into an intensive 4-6 weeks course either to make up credits or for enrichment.
- High School Teachers: hired as Adjunct Instructor



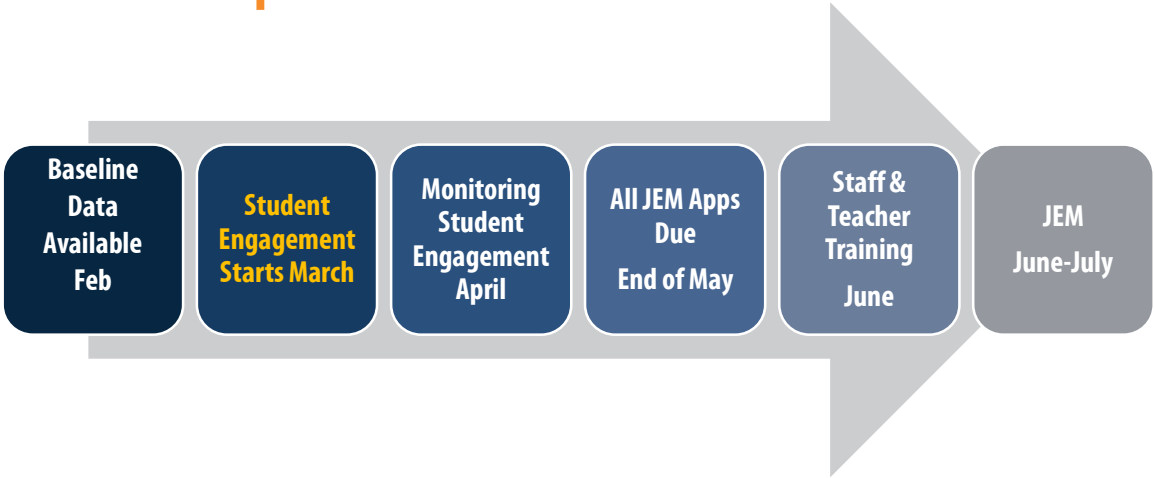
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GU4LA JEM Scope and Sequence



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Annual Implementation Timeline



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Preliminary Eligibility Roster

											Rows									
											0		1		2		3		4	
n	CSU GPA	UC (W) GPA	LAUSD (W) GPA	Current School Name	A	B	C	D	F		Course Name	Academic Mark	Course Name	Academic Mark	Course Name	Academic Mark	Course Name	Academic Mark	Course Name	Academic Mark
	4.00	4.00	3.88	Manual Arts Senior High College Preparatory Magnet	7	1	0	0	0				H WHG: MOD WLD A	A	H ENGLISH 10A	A	CC GEOMETRY A	A		ADV PE
			3.50	Manual Arts Senior High	7	1	0	0	0				ADAP PHYS ED	A	ELD-ALT CUR A	A	PRACT ENG A	A		PRACT A
	3.89	3.89	3.92	Manual Arts Senior High College Preparatory Magnet	7	1	0	0	0				SPANISH 2A	A	H ENGLISH 10A	A	CC ALGEBRA 2A	A		DESIGN
	3.41	3.41	3.15	Manual Arts Senior High	7	1	0	0	0				SPANISH 3A	A	AM LIT COMP	A	CULINARY PRINCIPLES	A		SPORTS MEDICI



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Engaging Students

- Following a set criteria
 - Past and in-progress grades
 - Transcript
- Involved Parents
- Academic Counselors and teachers



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Your Turn: Mock Advising

- Form groups of 2-3
- Decide who will be the school adult adviser and who will be the student.
- Review the scenarios
- Focus: How would you advise the student in each scenario?

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Scenario 1: English Learner

- Academic GPA: 3.0
- Options:
 - LAUSD provides enrichment for English Learners to strengthen their English skills and help them reclassify the following year during the summer.
 - College Class
 - JEM

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Scenario 2: Low GPA

- Academic GPA: 2.3
- State College minimum eligibility academic GPA is 2.5.
- Options:
 - Sports Practice
 - JEM

Scenario 3: Special Education

- Academic GPA: 4.3
- No extracurricular activities
- High Functioning Autism
 - Unable to sit in one place for a long period of time, tends to have uncontrollable outburst.
- Behavior Intervention Implementation Support (BII) during the school year.
- School has no funding for BII during the summer

Scenario 4:

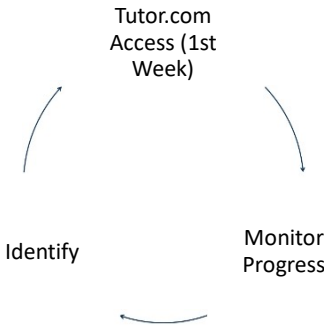
- Academic GPA: 4.1
- School Rank #1 (wants to be valedictorian)
- Multiple Extracurricular Activities
- Options:
 - College research opportunity
 - JEM
 - College Course



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Ensuring Student Success: During

- Provide on-site and in-class support
- Advisor makes check-in calls home, **especially when student is absent**
- Advising Cycle
- In-person tutoring and tutor.com
- Tutoring Cycle



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Ensuring Student Success: After

- Advise students who earned C's
- Ensure students who earned A's and B's are placed in the correct math classes
- Ensure grades are correctly recorded



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Implementation Lessons Learned

What are some challenges that you have encountered when implementing any enrichment program?
How have you overcome them?



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GU4LA Lessons Learned

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Testimonials



Evaluation: Method

Did JEM students enroll in higher math courses in the fall?

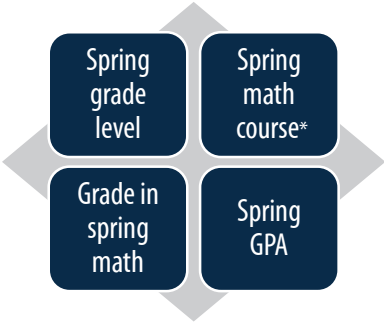
Were fall math grades higher for JEM students?



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Evaluation: Method

Comparison groups matched 1 to 1 on four criteria:



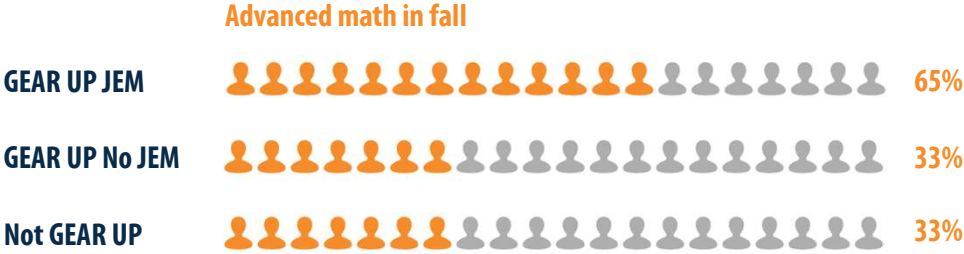
*Including level of math course



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Evaluation: Results

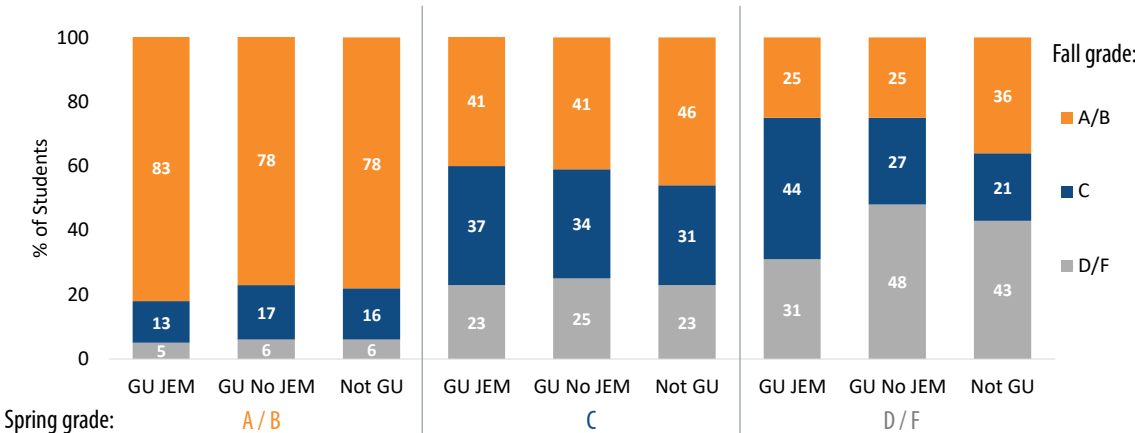
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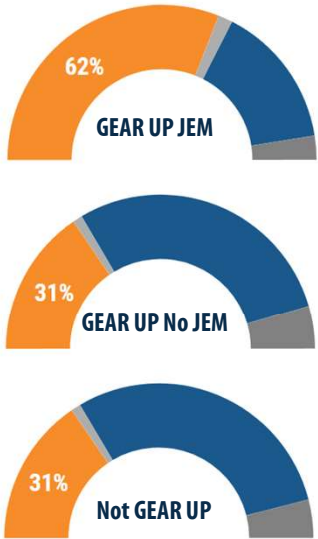


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Evaluation: Results

Fall outcomes combined:

- ▶ Math level taken
- ▶ Grade



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“Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all, love of what you are doing or learning to do.” —Pele



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