The CSUN–LAUSD–Compton–El Monte Transitions to College Math and Statistics (TCMS) Project

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Mission:
The TCMS Project seeks to ease the transition from high school to postsecondary education in math.

Goal:
To support, sustain, and expand the professional development of teachers in fourth year math classes in the L.A. Basin; to refine and expand curriculum supports for one particular course: Transitions to College Math and Statistics (TCMS); and to foster authentic collaboration between the CSU, K-12, and Community Colleges.

Student Profile:
Provide engaging and broadly applicable math options for students seeking alternatives to the existing STEM pathways.

Designed for:
✓ High school seniors
✓ SBAC Level 2 or 3
✓ Have a C or better in algebra 2*
✓ Unsure about 4th year math class
✓ Plan/hope to go to college/university
✓ Students who are willing to give math a second chance.

*TCMS validates algebra 2. Students who did not take algebra 2 or who earned a D or F will be UC/CSU eligible in math if they earn a C or better in TCMS.
TCMS Book: Students build the mathematical practices necessary for success in life and college.

+ I can read and interpret data from a two-way frequency table and bar graph.
+ I can calculate the different risks: absolute risk, relative risk and absolute risk reduction, and interpret their meaning in context.
+ I can identify the components of an experiment and determine if it is well designed.
+ I can identify homogenous groups by sight (chart or table) and by calculation (Chi-Square).
+ I can calculate Chi-Square and use it to see if two groups are independent (optional).
+ I can identify situations that are best explained by linear, polynomial or exponential models.
+ I can use graphs, tables, and equations to better understand situations that are explained by linear, polynomial or exponential models.
+ I can use appropriate linear, polynomial or exponential models to explain or make predictions about situations.

Social Emotional Learning: Students learn social and emotional skills for success in and beyond college.

★ I know how to work effectively and cooperatively in a group to understand a problem, plan a course of action, implement the plan, and check the reasonableness of the answer we obtain.

★ I understand that I am in control of my learning and through reflection and communication with my teacher, I can improve my outcomes.

★ I know how to set learning goals, make a plan of action, follow through, check, and reassess.

★ I know how to manage my time when preparing for assessments and then to use those assessments to help me improve my learning strategies.

IXL: Custom skills plan for TCMS that covers just-in-time mathematics skills for each lesson.