

TRANSITION TO COLLEGE LEVEL MATHEMATICS



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.



Student Profile:

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



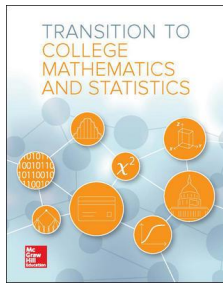
Goal:

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.

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.