

OUR GOAL

The goal of MATE is to connect the extraordinary resources of the university with the talents and vision of the K-12 educational community in order to address the mathematical needs of our students, teachers and schools. The targeted goal is to increase the number and quality of students who meet UC eligibility requirements. This targeted opportunity will provide additional programs and benefits for all students, teachers, and the community. MATE encompasses activities that provide direct student services through academic support and enrichment opportunities, direct teacher development in the area of mathematics, and curriculum realignment of K-12 courses with a pipeline leading to meet UC entrance requirements.



"The MATE program has empowered me to become a better teacher in so many ways! I've felt a renewed commitment to my career filled with new enthusiasm for...math...I feel so fortunate to have had the opportunity to become a student again."

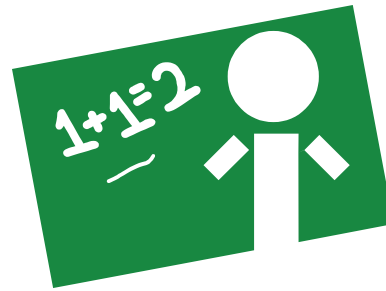
-Elementary School Teacher

"[MATE has] given me a stronger background in math which helps me explain math better to my students."

-Middle School Teacher

"[MATE is the]...only class I have taken which models actual teaching methods for math. Examples of lesson plans that are student centered are invaluable."

-High School Teacher



FOR MORE INFORMATION CONTACT:

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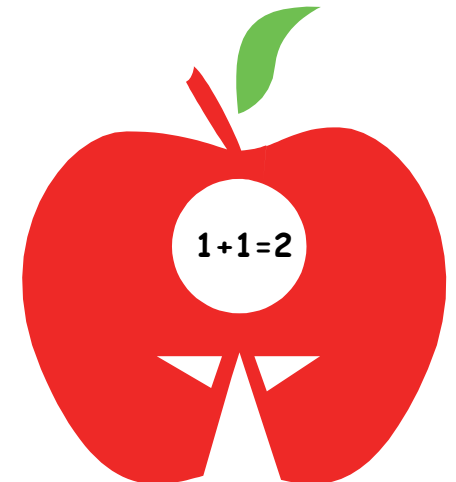


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Additional information about MATE is
available on the ALPHA Center website at
www.alphacenter.ucr.edu



Mathematics Academy for Teaching Excellence



ALPHA Center
Academy of Learning through
Partnerships for Higher Achievement
University of California, Riverside

Mathematics Academy for Teaching Excellence

DIRECT STUDENT SERVICES

- Clarification of A-G requirements for parents and students.
- Mentors and Tutors from UCR.
- Summer and Saturday academy classes at the UCR campus or a local school site.
- College tours and Mathematics events for students and families.
- Assistance in preparation for standardized tests: Stanford-9, PSAT, SAT, SAT II, AP courses and Mathematics Diagnostic Exam.



CURRICULUM DEVELOPMENT

- A forum for teachers to discuss student access to and successful completion of UC A-G requirements and honors courses.
- Goals for increasing academic rigor and vertical articulation of courses in mathematics.
- Content alignment with state and national standards.

TEACHER DEVELOPMENT

- Opportunities to increase mathematics content knowledge.
- The interface of academic content with pedagogy for diverse students of varying abilities.
- Support systems necessary for best practices in teaching.
- Links with ongoing research for teachers as researchers.
- Network opportunities with local, state and national mathematics leadership organizations.



MATE provides teachers with a hands-on learning environment to help improve content knowledge and pedagogy. Teachers are both reintroduced to mathematics concepts and given strategies on how to more effectively engage students in their learning.

OPPORTUNITIES

Academy for Teachers:

- College credits and professional library available to participating teachers.
- A year long, summer intensive program for K-12th grade teachers.
- Emphasis on algebra and its integration across the mathematics curriculum.
- Chance to evaluate innovative teaching strategies and research their effectiveness.

Student Academies:

- CHAMP (Climbing Higher with the Academy for Mathematics Performance), a week long summer program for students grades 4-11.
- Content rich, hands on activities from the algebra and geometry strands of the Mathematics Content Standards.
- Staffed by MATE teacher leaders, 4th-11th grade teachers from participating school sites, university CTF students, and UCR staff.
- Encourages UC college awareness by bringing students to the university campus.

District Level Workshops:

- Available to districts for grades K-12.
- Designed to increase teacher content understanding and model effective teaching strategies.
- Opportunities for MATE participants to grow professionally.
- A chance for teachers to collaborate and reflect on the effectiveness of current teaching strategies.

