ABOUT

The STEM Center is an intellectual hub that brings together a diverse set of constituencies interested in improving teaching and learning in STEM (Science, Technology, Engineering & Mathematics). Our commitment to equity, access, and social justice informs all of the work we do. We build collaborative teams comprised of teachers, community members, district administrators, university researchers, philanthropists, business, and civic leaders to:

• Design and carry out cutting edge research in STEM education.
• Promote equity and access to STEM learning opportunities.
• Provide high-quality professional development to practicing STEM teachers.
• Disseminate research findings, products, and instructional innovations to all parties working to improve STEM Education in Texas and throughout the U.S.

Improving the teaching and learning of Science, Technology, Engineering, & Mathematics
STEM CENTER HIGHLIGHTS

ARGUMENT-DRIVEN ENGINEERING (ADE)/PROJECT LEAP

ADE is an instructional approach to integrate engineering into middle school science classes, while Learning through Early Algebra Progressions (LEAP) seeks to identify instructional practices that are associated with students’ early algebra learning. Both are supported by the National Science Foundation.

RESEARCH

Our work has been published in journals such as The American Educational Research Journal, The Journal for Research in Science Teaching, and Science Education. We also present our work at meetings of research and professional organizations such as the American Educational Research Association, the Conference for the Advancement of Mathematics Teaching, and the American Society for Engineering Education.

DATABASE & EVALUATION SERVICES

We provide customized database services for those who need to work with secure data. In addition, our team has extensive experience designing and conducting research and evaluations with a wide variety of clients.

MAXIMIZING LEARNING AND ACCESS FOR ALL STUDENTS IN STEM

IMPROVING STEM TEACHER EDUCATION THROUGH RESEARCH & PROFESSIONAL DEVELOPMENT

DISSEMINATING OUR WORK TO OTHERS IN STEM EDUCATION SO THEY CAN IMPROVE STEM TEACHING AND LEARNING FOR ALL STUDENTS

FOSTERING THE NEXT GENERATION OF STEM EDUCATION RESEARCHERS

FACILITATING AND SUPPORTING STATE AND NATIONAL EFFORTS TO IMPROVE STEM EDUCATION FOR ALL STUDENTS

BRINGING TOGETHER VARIOUS STAKEHOLDERS IN THE IMPROVEMENT OF STEM EDUCATION FOR ALL STUDENTS

WE TEACH_CS (WTCS)/TEXAS REGIONAL COLLABORATIVES FOR EXCELLENCE IN SCIENCE AND MATHEMATICS TEACHING (TRC)

WTCS is a multifaceted initiative designed to increase the number of certified computer science teachers in Texas and to continue improving CS education by providing teachers with ongoing professional development, resources, and community. The TRC is an award-winning network of P-16 partnerships whose programs equip teachers with the knowledge and skills to engage students in meaningful science and mathematics learning experiences.

RESEARCH

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GRANT SUBMISSION & POST-AWARD SUPPORT

We provide support for members of the UT community and our school district partners submitting proposals for external funding of projects.

TRC ANNUAL MEETING/WE TEACH_CS SUMMIT/BUILDING BRIDGES/CS4TX

Our goal is to promote dialogue and partnerships between all stakeholders who are interested in improving STEM Education.

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