Texas Hispanic STEM Research Alliance

Regional Educational Laboratory Southwest

Using research and data to improve Texas Hispanic students' outcomes in STEM courses and careers

Hispanics in the United States remain underrepresented in the key fields of science, technology, engineering, and math (STEM). To address this critical need, the **Texas Hispanic STEM Research Alliance**, a collaborative partnership of educators, policymakers, researchers, and community members, seeks to improve Texas Hispanic students' participation, achievement, and advancement in STEM courses and careers through **research and analytic technical support**.

Alliance priorities and work

Pathways to STEM careers

- **Research review:** K–12 Indicators of postsecondary STEM success
- **Study:** Key Indicators of postsecondary STEM success for Hispanic students in Texas
- **Study:** Texas Hispanic high school students' access to and enrollment in advanced STEM courses
- **Technical assistance:** Tracking the use of strategies to support Texas Hispanic STEM students
- **Webinar:** Supporting Hispanic students preparing for STEM careers

Texas educators have incorporated the identified key indicators of postsecondary STEM success into the blueprint benchmarks for the state's more than 120 T-STEM Academies, and alliance members are using the data and evidence-based practices to inform state and local initiatives for increasing Hispanic students' participation in advanced STEM courses

Data availability and use

- **Workshop series:** Using available data to inform Hispanic STEM policies and practices

Alliance members and their colleagues learned about relevant data sources and expanded their capacity to locate, access, and use data effectively

Program design, implementation, and evaluation

- **Workshop series:** Using logic models to support Hispanic STEM programs and initiatives

Alliance members and their colleagues gained hands-on experience developing logic models and are using them to design, implement, evaluate, and improve local STEM programs as well as to explain their programs to school administrators

> ***It is refreshing to have data that validates our local experiences. As a STEM leader, it is incredibly empowering to have a hand in understanding the research agenda and how it can impact professional development and teacher problem solving on behalf of students.***
>
> — Ravae Villafranca Shaeffer, Co-Director, Transformation Central STEM Center

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