Integrated Statistics and Quantitative Reasoning (ISQR): An Overview

An innovative high school course empowering students for today's data-driven society

ABOUT ISQR

Integrated Statistics and Quantitative Reasoning (ISQR) can be offered as a 3rd or 4th year high school course to prepare students for both college and the workforce. This is achieved through the integration of statistical and quantitative reasoning taught in contexts that reflect the ways in which math and statistics are actually used in business, industry and research. The course includes hands-on projects, technology-driven investigations, and multiple opportunities for students to demonstrate their learning. It is designed to support various communication and learning styles, ensuring accessibility for every learner.

Read the ISQR Course Framework laying out the vision for the course.

About the Course Development

ISQR is being developed through a collaboration of the Charles A. Dana Center, WestEd, and over thirty districts in twelve states. The Dana Center is authoring the course with input from teachers, students, and family members via an innovative user-centered design process facilitated by WestEd. The development is currently underway, and the course will be piloted in the 2026-2027 academic year. The course materials along with implementation resources will be published as open education resources in 2027.

Why is ISQR needed?

ISQR addresses the need for advanced high school math courses that prepare students for both college and the workforce. Through the integration of statistical and quantitative reasoning, the course materials reflect the ways math and statistics are used in real-world contexts, such as business, industry, and research. The user-centered resources will empower teachers to create engaging, flexible learning experiences that meet the diverse needs of each and every student

ISQR is designed to:

- give students a more realistic picture of how mathematicians, statisticians, and data scientists actually approach problems,

- deepen students' understanding of and ability to compare different mathematical and statistical approaches, and

- enhance students' conceptual understanding and ability to apply math through real-world challenges that matter to them

- prepare students for workforce applications and additional math courses including AP Statistics, high school data science, and college-level quantitative reasoning, statistics and college algebra.

What's next?

Over thirty districts in twelve states are participating in the development process and pilot the course on the following timeline:

- Fall 2025 - Spring 2026: Dana Center, WestEd and local partners develop the course and professional learning. Districts prepare to pilot.

- Late Spring 2026: Examples of course materials will be made public.

- Fall 2026 - Spring 2027: Districts pilot the course. WestEd and the Dana Center host learning events and publish updates.

- Fall 2026: WestEd will publish implementation tools to support additional districts that want to offer the course in Fall 2027.

- Late Spring 2027: The Dana Center will publish revised course materials as open educational resources.

ISQR is a forward-looking course, designed by experts and users, designed to empower all students for success in college, career, and civic life.

Scan the QR code or sign up here to receive periodic updates about ISQR.

The University of Texas at Austin
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