



Elementary Statistical Methods

3 College Credits | UT Course Code: SDS 301 | TCCN Course: MATH 1342 | Core Code: 020

High School Course Prerequisites: Algebra I required, Algebra II recommended

Engage in collaborative problem solving, learn to analyze data, and express findings effectively.

This introductory course covers the basic foundations of data science. Students use interactive applications to explore topics like frequency distributions, sampling, experimental design, inference and regression — all while building mathematical literacy.

Hands-on data analysis, methods to extract key insights, and coding skills taught in this course are aligned to college expectations and the current career landscape. Students also develop quantitative reasoning skills and learn how to use data science across multiple disciplines.

Statistics



What Students Gain

- An intuitive understanding of the foundations of data science
- Hands-on data analysis experience
- Coding skills
- Quantitative reasoning skills

Course Structure

Through Flipped Learning, students engage in collaborative problem solving, while individual depth of understanding is reflected in regular assessments. Students hone mathematical and critical thinking skills through scaffolded learning experiences and statistical methodologies.

Big Ideas

- Data analysis and discussions on experimental design
- Inference based on sample population data
- Data relationships: variables, data summaries, creating graphs/models, predictions



What Students Say

“I never thought about majoring in statistics, but after this class it has definitely become an option.”

