The University of Texas at Austin
In-Term 2

M378K Introduction to Mathematical Statistics

March 06, 2026

Topics for In-Term Two.

- Joint distributions.
- Independence of random variables.
- Transformations of random variables.
- The χ^2 —distribution.
- The Gamma distribution.
- Moment generating functions.
- The normal distribution.
- The de Moivre-Laplace theorem.
- The Central Limit Theorem.
- The Statistical Set-up.