STATISTICS I

Summer 2026 Professional Development opportunity offered by Vermont Mathematics Initiative

Location:
VTSU Campus, Williston, VT

Course information

Dates/Times: July 13-17, 2026
8:30-4:30 Monday, 8:00-4:00 Tuesday-Friday

Tuition: $2037 (with 3 VTSU Graduate Credits);
Includes a catered lunch each day and hotel accommodations for those who live more than an hour from Williston. Hotel is available Monday-Thursday nights.

To register: Use the QR code, visit tinyurl.com/vmisummer or contact Kathryn Delay (kathryn@vmimathematics.com)

"Statistics is a methodological discipline. It exists not for itself, but rather to offer to other fields of study a coherent set of ideas and tools for dealing with data. The need for such a discipline arises from the omnipresence of variability."

(Moore and Cobb, 1997)

The Guidelines for Assessment and Instruction in Statistics Education (GAISE) Report, endorsed by the American Statistical Association, is the authoritative report that guides curricular decisions in K-12 and college education. The GAISE report describes this focus on the omnipresence of variability as the distinguishing feature of statistics education and the idea that sets statistics apart from mathematics. As described in the report (2005), "a major objective of statistics education is to help students develop statistical thinking. Statistical thinking, in large part, must deal with this omnipresence of variability; statistics problem solving and decision making depend on understanding, explaining, and quantifying the variability in the data." (p. 6)

This Vermont Mathematics Initiative (VMI) course begins the study of statistical thinking and provides an introduction to descriptive statistics with an emphasis on applications in education as well as connections to other areas of K-12 mathematics. Topics include graphical and numerical organization and presentation of data, summary statistics for quantitative data, including measures of center, and measures of variability, properties of the normal curve, placement of individuals within a distribution, and measures of relationship between variables.