

The Vermont Mathematics Initiative (VMI) will be offering a Linear Algebra course this summer at UVM!

An Introduction to Linear Algebra and Its Applications

July 11-15, 8-4 (Monday 8:30-4:30)

Instructors: Julie Theoret and Susan Ojala

This content-based VMI course is intended for high school teachers to further their mathematical knowledge. Middle level teachers with strong arithmetic and algebra skills (such as solving quadratic equations and factoring) are welcome to register.

The topics will include systems of linear equations, the vector space \mathbb{R}^n , matrix operations and properties, transformations, stochastic matrices, determinants, eigenvectors and eigenvalues. We will conclude with a discussion of a generalized concept of vector spaces and their properties. Related applications and proofs will be embedded throughout the course. The course will be taught in traditional VMI fashion—a short amount of direct instruction followed by practice, application and discussion, with problem solving interspersed where applicable. A graphing calculator is required (TI-83 or 84 preferred).

Lunch is provided each day and hotel accommodations are provided for those traveling a distance.

To register for the course, please contact Kathy at vmi@cems.uvm.edu or call 802-656-8186.

Registration deadline is June 15. For questions regarding course content, please email Susan at sojala@uvm.edu or Julie at Julie.Theoret@jsc.edu.