Motivation & Objectives

MA 16100 is a historically difficult course required for engineering and science majors.

1. To address needs of students that are not being met in the traditional configuration.
2. To provide an environment that fosters collaborative learning and active engagement with the subject matter.
3. To foster a community of learners.
4. To modernize and optimize the use of resources.
5. To increase student accountability for learning while providing the necessary supports for them to be successful.
6. To improve academic outcomes including ways that contribute to personal growth and long-term student success.

Initial Observations

1. The classroom environment is more engaging and collaborative than the traditional format.
2. Attendance is markedly higher than for the traditional sections.
3. Standardized assessments indicate the experimental section maintains or exceeds the academic outcomes of the traditional version.
4. Students’ mathematical communication skills show improvement.