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The activities, experiences, and results from creating a blended math and science cohort of upper-level undergraduates and graduate students in the M.S. in Applied Mathematics program are summarized. In the third year of funding from the National Science Foundation's Scholarships in Science, Technology, Engineering, and Mathematics (S-STEM), our program has expanded recruitment, improved retention, and further developed student skills. Scholarship program activities establish a supportive connection of master's students with undergraduates. Science majors take additional coursework towards a minor or double major in mathematics. The scholarship cohort participates in interdisciplinary activities, investigates careers and graduate schools, communicates with external mentors, meets with invited speakers, and attends professional development workshops on use of mathematical software and technology. Many sponsored events are open to the community and positively impact the local academic culture. In addition to presenting activities and outcomes, suggestions for enhancing program impact will be included. On assessments, students report improved satisfaction with the academic environment, their selected majors, and their career plans. (Received September 25, 2012)