The Sage Colleges conducts a program called Scholarships In Mathematics, Engineering, and The Sciences (SIMETS), funded by the National Science Foundation. (See http://www.sage.edu/academics/mathandcomputingsciences/resources/simets/.) This program is modeled after our previously successful NSF-funded program Scholarships In Mathematics And Computer Science (SIMACS). The authors will present details of the program’s components, which include: scholarship money, funds toward the purchase of a laptop, mentoring, tutoring, field trips and site visits. We will discuss how this program has served to enrich the undergraduate experiences of the SIMETS scholars, as well as the impact it has had on enrollments. (Received September 22, 2009)