1067-Z1-1893   **Kyle Riley*** (`Kyle.Riley@sdsmt.edu`), Dept. Math & Computer Science, SDSMT, 501 East Saint Joseph Street, Rapid City, SD 57701. *Redesign of Calculus 2.* Preliminary report.

The design of a traditional second semester calculus class typically involves the development of exponentials and logarithms, inverse trigonometric functions, hyperbolic functions, techniques of integration, L'Hôpital's Rule, infinite series, parametric functions, and maybe some coverage related to conic sections. If all the students in our calculus sections were mathematics majors then this course design would be suitable for their major, but the simple fact that the vast majority of our students are engineering and science majors has prompted us to consider a different design for our calculus 2. This talk will present a pilot project that attempts to modify calculus 2 to provide content that appears to be desperately needed by our students very early in their academic programs. (Received September 22, 2010)