MATH 5340 Differential Geometry. Three semester hours.

This course is an introduction to the differential geometry of n-dimensional manifolds. Topics include: Riemannian manifolds, differential forms and Stokes Theorem. (Note that differential geometry is relevant to differential equations, mathematical physics, as well as other areas of sciences.) Prerequisite: MATH 5365 and knowledge equivalent to MATH 2415, MATH 4335 Graduate standing and permission of instructor.