

MATH 70900: Differential Geometry I

Tu & Th, 12:15pm - 1:45pm, Rm. TBA

Prof. B. Santoro (City College)

4.5 cr.

This course is the first semester of a one year course in the differential geometry of manifolds. Topics to be covered are smooth structures, tangent spaces, vector bundles, immersed and embedded submanifolds, differential forms and De Rham cohomology. We shall cover most of the topics in the textbook, except for Riemannian Geometry, which will be covered in the second semester.

Textbook: *Introduction to Smooth Manifolds*, second edition, by John M. Lee.