MA722 Differential Topology II

Spring 2014

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Office Hours: TR 10 – 11, W 1-2 or by appointment

Text: Lee, "Introduction to Smooth Manifods," and possibly Bott and Tu, "Differential

Forms in Algebraic Topology."

This semester will focus on differential forms, integration of differential forms on oriented manifolds, and de Rham cohomology. This is material in the Lee text. As time permits, we'll consider intersection theory on manifolds, the homological dual of de Rham cohomology, using Bott and Tu.

Homework will be regularly assigned and will form the basis of the course grade.