Course Information

Classes: Tue/Thurs 12:30-2pm in MATH; OFFICE HOURS Thurs 2:00pm-3:00pm in MATH 239;

Textbook: Introduction to smooth manifolds, by John M. Lee, 2003, Graduate texts in mathematics, Volume 218. (the e-book version can be accessed online at http://www.library.ubc.ca/)

In this course we study the basic theory of smooth manifolds. We will consider fundamental constructions/objects on manifolds including vector bundles, tensors, differential forms and submanifolds. Depending on time, we may also discuss one or more of the following topics: Integration on manifolds, curvature and geodesics, Lie Groups and Lie algebras.