

MATHEMATICS 6510. Fall 2001
Differential Topology.

Text: *Differential Topology*, by V.Guillemin and A.Pollack.

When/Where: TH, 10:45 AM-12:05 PM, JTB 120.

Instructor: Prof. Michael Kapovich.

Office: JWB 329; **phone:** 581-7916; **e-mail:** kapovich@math.utah.edu

Office hours: TH, 9:30– 10:30 AM, or by appointment.

Course description: We will cover most of the material in the textbook: smooth manifolds, immersions/submersions, transversality, intersection theory, vector fields and Euler characteristic, differential forms and de Rham cohomology, Gauss curvature; in addition we will cover the Frobenius theorem and the basics of the theory of fiber bundles which will provide us with more examples of differentiable manifolds.

Homework: I will be assigning homework every week. Your grade will be determined on the basis of your homework.

ADA Statement: The Americans with Disabilities Act requires that reasonable accommodations be provided for students with physical, sensory, cognitive, systemic, learning and psychiatric disabilities. Please contact me at the beginning of the quarter to discuss any such accommodations for the course.

There will be no classes on Thursday, October 4th (Fall Break), Thursday, November 22nd (Thanksgiving Holiday.)